Manitoba

Annual Report 1985

Labour

Office of the Fire Commissioner

Manitoba

Labour

Office of the
Fire Commissioner

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86 09 15

The Honourable Alvin Mackling
Minister of Labour
Province of Manitoba

Sir:

I have the honour to submit herewith the 1985 Office of the Fire Commissioner's Annual Report, Province of Manitoba.

Your Obedient Servant

A. Thorimbert
Fire Commissioner

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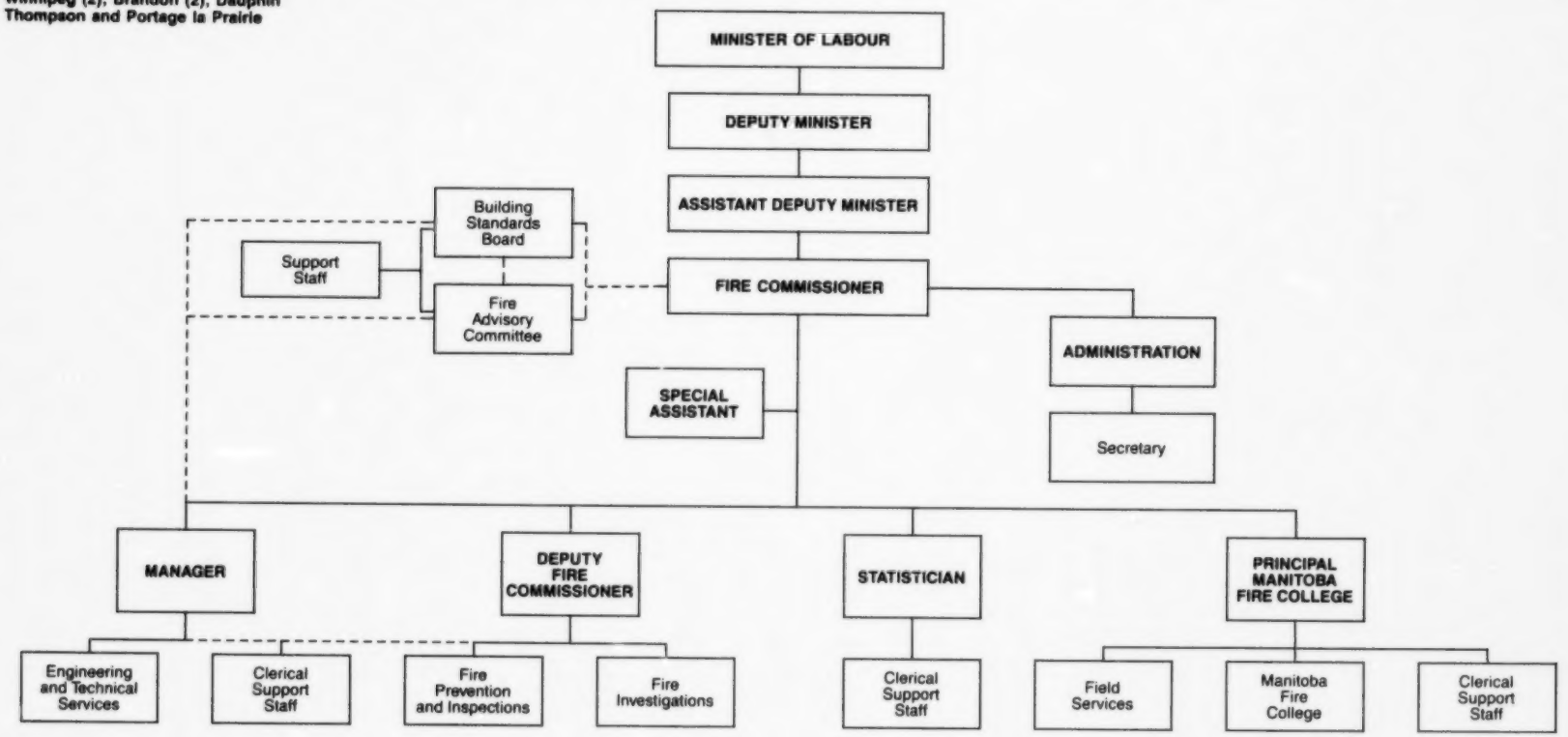
Functions of the Office of the Fire Commissioner
Province of Manitoba

Regional Offices:
Winnipeg (2), Brandon (2), Dauphin
Thompson and Portage la Prairie



OFFICE FUNCTIONS

ENGINEERING AND TECHNICAL SERVICES — Examine plans relative to the Manitoba Building Code and Manitoba Fire Code for compliance to: New construction, Existing Buildings; Inspects buildings for compliance to the Manitoba Building Code; Inspects and issues permits to sell for: Mobile Homes, Recreational Vehicles.

FIRE PREVENTION AND INSPECTIONS — Inspection of: Public Buildings, Schools, Hotels and Motels, Institutions, Industrial Establishments; Instruct and lecture to: staff of hospitals, schools, fire departments, and industrial establishments.

INVESTIGATIONS — Detection of arson; Determination of cause and origin; Investigation of fires resulting in injuries or fatalities.

STATISTICS — Compile and disseminate uniform fire loss statistics: Prepare Annual Report: Instruct on the Fire Loss Reporting System to: Fire Departments, Insurance Adjusters.

FIELD SERVICES — Assist Fire Departments in: Organization Requirements, Equipment Requirements, Apparatus Requirements, Mutual Aid; Conduct: Fire Protection Surveys, Fire Pumper Specifications, Fire Pumper Tender Perusal and Assessments, Fire Pumper Performance and Acceptance Field Test; Instruct: On the Control of Dangerous Goods Incidents; Administer the Municipal Fire Prevention Program.

MANITOBA FIRE COLLEGE — Certification Program; Certify: Paid and Volunteer Fire Fighters, Fire Service Instructors, Fire Prevention Officers, Institutional Fire Marshals, Institutional Staff; Train: Dangerous Goods, Fire Cause Determination, Search and Rescue, Vehicle Extrication.

Office of the Fire Commissioner

The role and mission of the Office of the Fire Commissioner is to promote and encourage the safety of persons, to reduce life and property loss in respect to fires, dangerous goods, structural and mechanical matters and other related hazards through the administration of The Manitoba Fires Prevention Act and the Buildings and Mobile Homes Act.

Functions

In administering the Acts, the functions of the Office of the Fire Commissioner are to:

- conduct investigations to determine the cause, origin and circumstances of fires.
- advise and train the fire service, building officials, and other interested groups in fire prevention and protection practices, building inspections, dangerous goods, emergency services management and rescue.
- advise building officials and other interested persons in the application of the Manitoba Building Code and Fire Code.
- promote public education in fire prevention practices and life safety measures.
- collect and analyze fire cause related information to address fires and other life safety hazards.
- conduct fire prevention inspections of public occupied buildings and places of assembly to ensure compliance with fire regulations.
- provide consulting services to fire departments and other agencies to evaluate and recommend fire protection equipment.

Under the direction of the Fire Commissioner, the branch has seven sections to carry out its specific functions. These include Administration, Statistical Services, Investigation, Prevention, the Manitoba Fire College, Field Services, and Engineering and Technical Services.

Review of 1985

In 1985 the Province of Manitoba recorded 6,461 fire incidents which incurred $36,869,621 in property damage. This is very encouraging when compared to the previous year's statistics. These figures represent a decrease of 12% or 887 fires and a 22% or $10,580,354 reduction in property loss.

The outdoor property category depicts the most drastic reduction in fires of 696 or nearly 25% over 1984, followed by a 6% decrease in structural fires over the same period. Major losses of $250,000 or more have also decreased by 30% or eight incidents and over seven million dollars in damage. The 19 major losses account for just over one quarter of one percent of the total number of fires and 29% of the total monitary loss throughout the province.

Of a most serious nature is the increase in fire fatalities this year. There were 38 fire deaths comprised of 22 men, 8 women, and 8 children in a total of 26 fires. This represents a 25% increase in comparison to the 33 reported in 1984. The number of male adults rose by nine while female adults and children decreased by one and three respectively. It is very distressing to report that 34 or 89% of all the 1985 fatalities occurred in residential occupancies. During this year the presence of alcohol contributed either directly or indirectly to 10 or 26% of all fatalities.

The number of persons injured by fire rose slightly from 222 to 232 or by less than five percent with the greatest increase in the number of male adults injured.

There were 2,253 reported fires in residential properties representing 35% of all fires in 1985 and a total loss of $14,360,155 or 39% in property damage. The majority of these fires, 1,660 or 26% of all incidents occurred in one and two family dwellings which incurred a loss of $11,085,479 or 30% over the year.

During 1985, the Investigation Section in conjunction with local police authorities conducted 910 investigations. Of these 465 were in Metro Winnipeg, 39 were in urban centres and 406 were in rural Manitoba. The conclusions were 52% or 475 were found to be accidental, followed by 27% or 244 being incendiary, vandalism or undetermined suspicious; and 21% or 191 were undetermined.

As a result of these findings, 69 persons were charged and 29 were convicted with 32 court cases still pending at the end of 1985. Forty-three juveniles were warned in comparison to 71 in 1984.

April 1, 1985 - March 31, 1985

This year the Prevention Section distributed 130,923 pieces of literature to the fire service and general public to assist them in promoting fire prevention and fire safety.

The Fire Prevention Section conducted a total of 724 inspections of institutional occupanies and various public occupancy buildings for compliance with the fire safety requirements of the Manitoba Fire Code. This substantial increase over the 198 inspections conducted in 1984 is due in part to a re-organization in the office to better serve our clients.

Under the Municipal Fire Prevention program 1,796 inspections were conducted by local Fire Prevention Officers. A concerted effort is being made by the Field Services Staff to encourage all fire departments to adopt the system, thus making it more effective throughout the province.

The Field Services Section along with the Fire College worked in co-operation with the Department of Northern Affairs to continue to promote fire prevention by inspecting 679 dwellings and training local fire department personnel in northern communities.

In October, The Premier presided at the official opening ceremony for the Manitoba Fire College in Brandon. This training centre contains the Administration Section of the college, classrooms, an all season training enclosure, drill tower and a "Burn House" for practical training.

The Fire College is responsible for the delivery of all certified training programs for the fire service and other persons in fire prevention and fire protection practices. This year 207 courses were offered having an attendance of 3,919 candidates in local regions and at the training facilities in Winnipeg and Thompson as well as the college.

In December, the Manitoba Fire College conducted a three day Fire and Rescue Conference in Brandon attended by 170 delegates composed of Fire Chiefs, Fire Service Instructors, Secretary-Treasurers and other interested individuals.

The annual conference for the Association of Canadian Fire Marshals and Fire Commissioners was held in July at Winnipeg's Holiday Inn and hosted by the Provincial Minister of Labour.

Under the Manitoba Building and Mobile Homes Act the Engineering and Technical Services Section examined 909 building plans and inspected 1,047 occupancies for compliance with the Building and Fire Codes. They also inspected 101 plumbing installations, 102 solid fuel burning appliances and 996 mobile homes and travel trailers.

The Standing committees of the Building Standards Board reviewed changes in the 1985 National Building Code and made additions, amendments and deletions where necessary for the development of a revised 1986 Manitoba Building Code. Their counterparts under the Fire Advisory Committee did likewise to the 1985 National Fire Code for the 1986 Manitoba Fire Code. Both these reviews are on an ongoing basis to meet the needs of this province.

The Alarm Reporting Systems Sub-committee of the Fire Advisory Committee developed a regulation under the Fires Prevention Act in respect to Centrally Monitored Fire Alarm Systems and Fire Alarm Monitoring Agencies, which was adopted by Order-In-Council as Manitoba Regulation 239/85. Enforcement of this regulation is being administered by the Field Services Section of the Fire Commissioner's Office and the Fires Prevention Branch of the Winnipeg Fire Department. Having completed their mandate this sub-committee was disbanded.

In concluding, the Fire Commissioner's Office takes this opportunity to thank the various agencies and organizations which supported and assisted us in carrying out our responsibilities in 1985. We look forward to continuing the excellent working relations with the fire and police services as well as members of the insurance industry.

Chart No. 1

Comparative Chart of The Total Number of Fires In Manitoba, 1981-1985

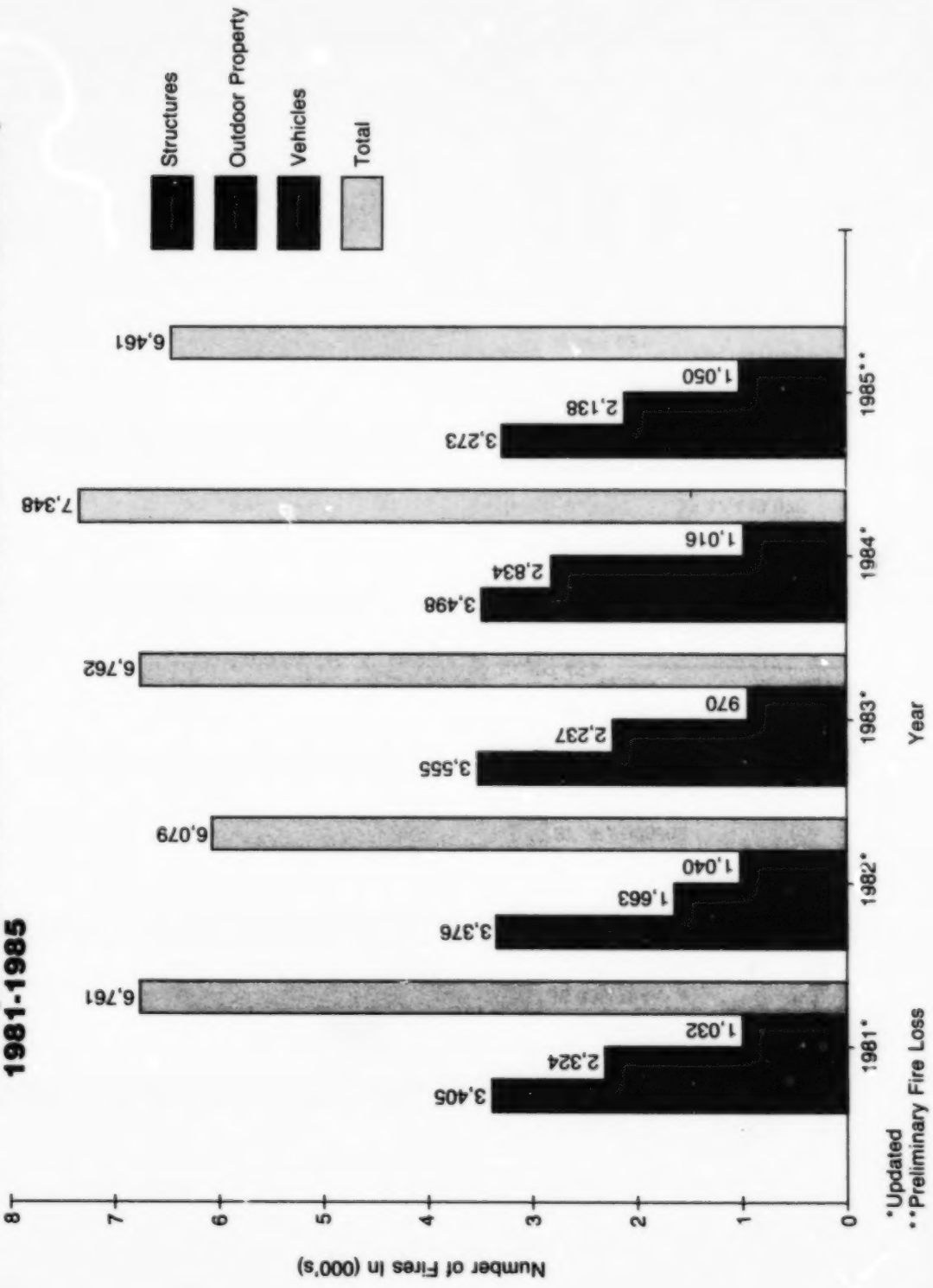
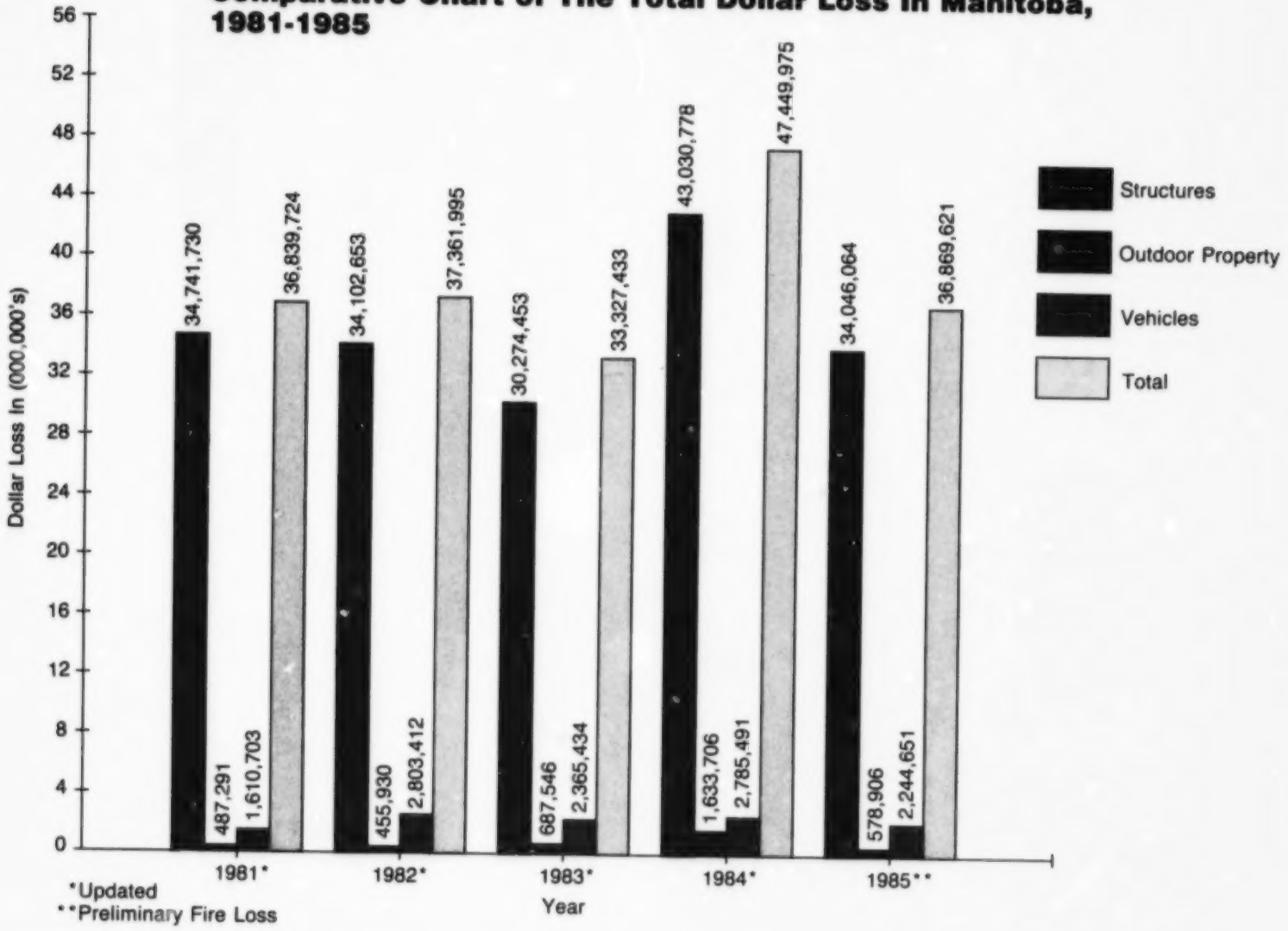


Chart No. 2

Comparative Chart of The Total Dollar Loss In Manitoba, 1981-1985



*Updated
**Preliminary Fire Loss

Table No. 1

Distribution of Fires by Amount of Dollar Loss, 1985

Amount of Dollar Loss Minimum	Maximum	Number of Fires	Percentage of Total	Dollar Loss	Percentage of Total
Less than	$ 100.00	3,074	47.59%	$ 8,927	.02%
100.00 to	999.99	1,386	21.45	558,743	1.52
1,000.00 to	9,999.99	1,423	22.02	4,169,983	11.31
10,000.00 to	49,999.99	425	6.58	9,445,259	25.62
50,000.00 to	249,999.99	134	2.07	11,799,576	32.00
250,000.00 and greater		19	.29	10,887,133	29.53
Total		**6,461**	**100.00%**	**$36,869,621**	**100.00%**

Table No. 2

Fires and Fire Losses by Month, 1985

Month	Number of Fires	Percentage of Total	Dollar Loss	Percentage of Total
January	452	7.00%	$ 2,254,353	6.11%
February	395	6.11	3,958,399	10.75
March	450	6.96	2,493,509	6.76
April	938	14.52	6,254,726	16.97
May	699	10.82	1,862,808	5.05
June	495	7.66	3,603,314	9.77
July	569	8.81	2,934,569	7.96
August	517	8.00	2,308,414	6.26
September	513	7.94	2,284,012	6.19
October	557	8.62	3,341,274	9.06
November	469	7.26	2,819,968	7.65
December	407	6.30	2,754,275	7.47
Total	**6,461**	**100.00%**	**$36,869,621**	**100.00%**

Chart No. 3

Number of Fires by Day of Week, 1985

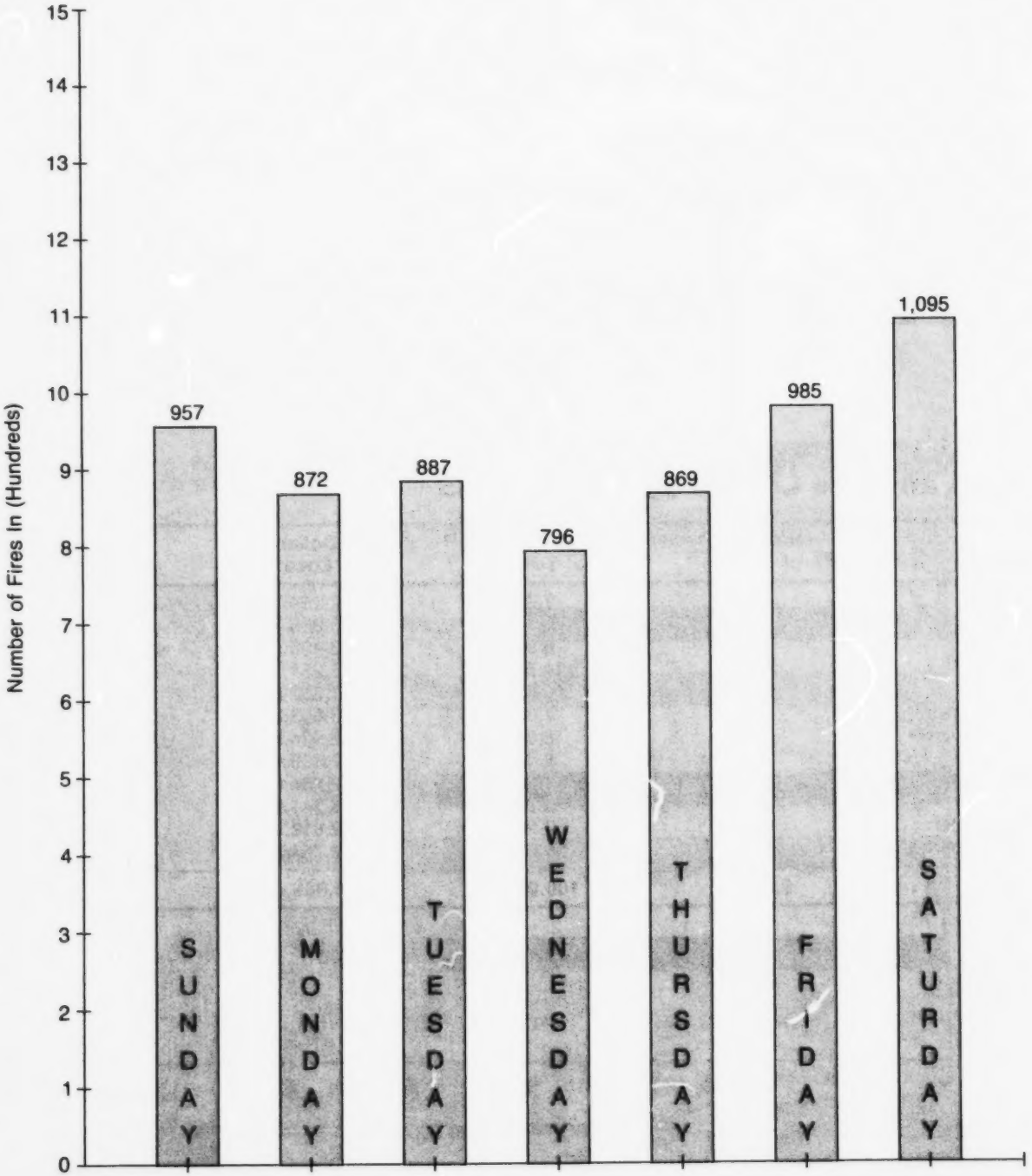


Chart No. 4

Dollar Loss by Day of Week, 1985

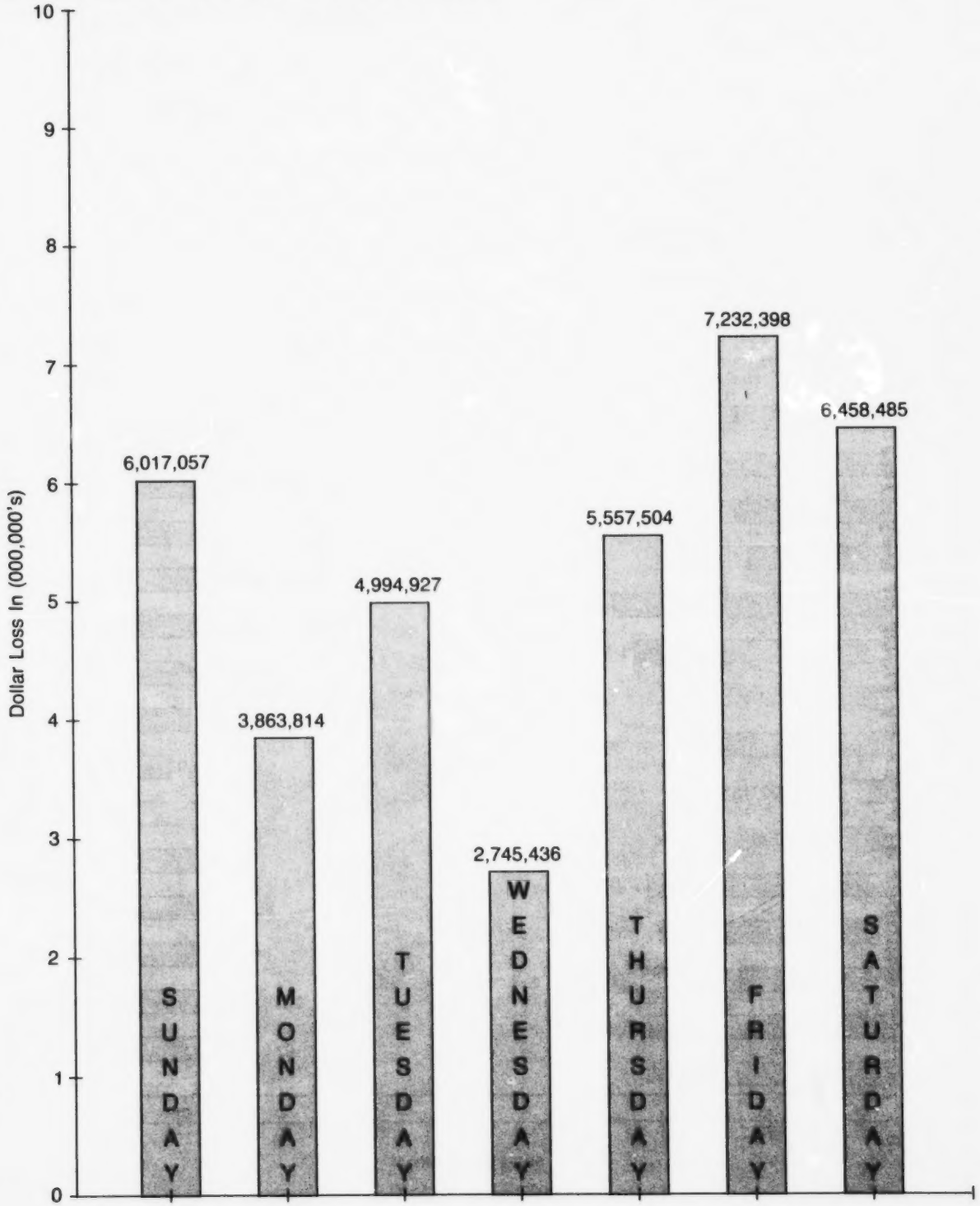


Chart No. 5

Number of Fires by Hour of Day, 1985

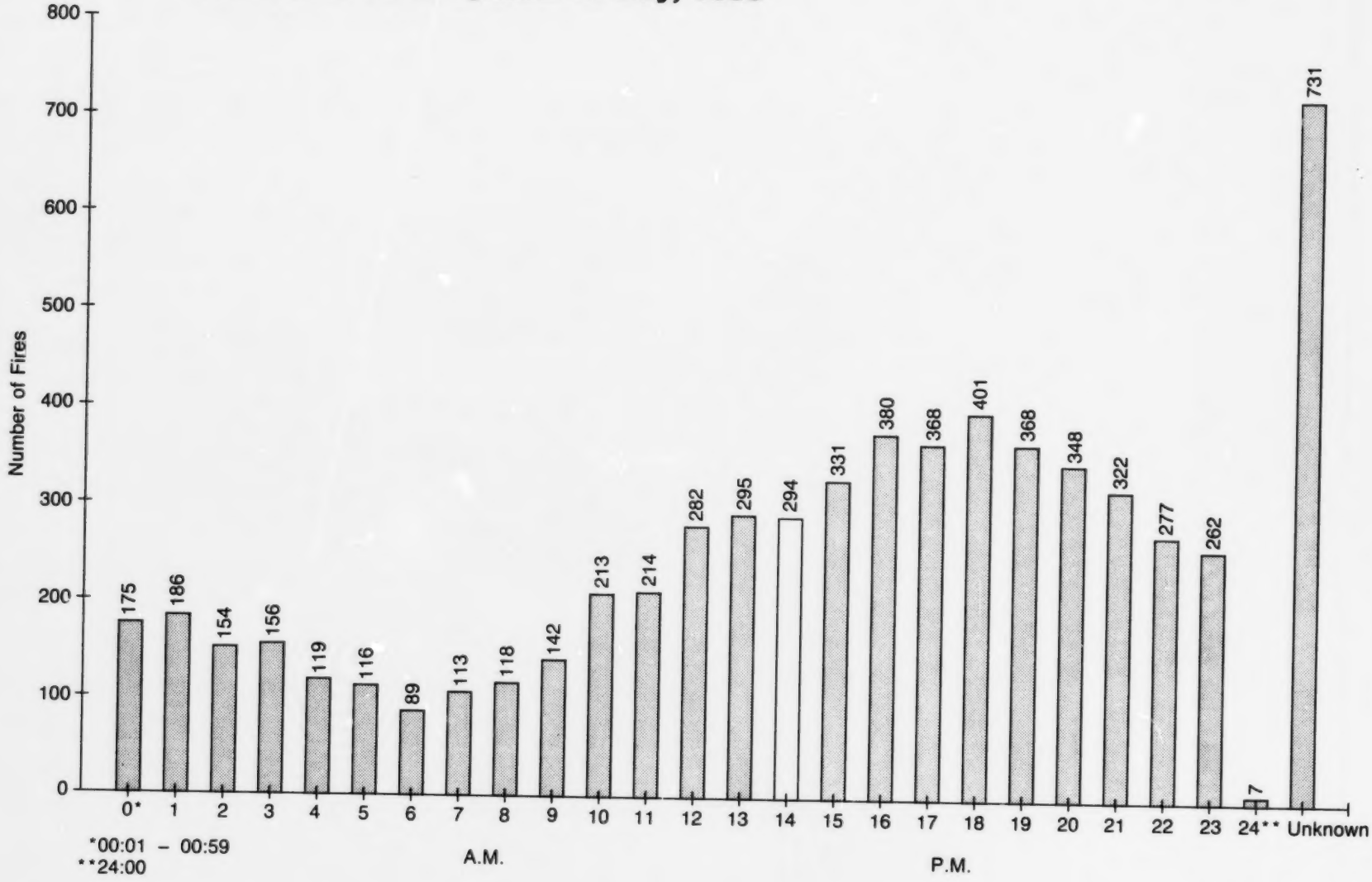


Chart No. 6

Dollar Loss by Hour of Day, 1985

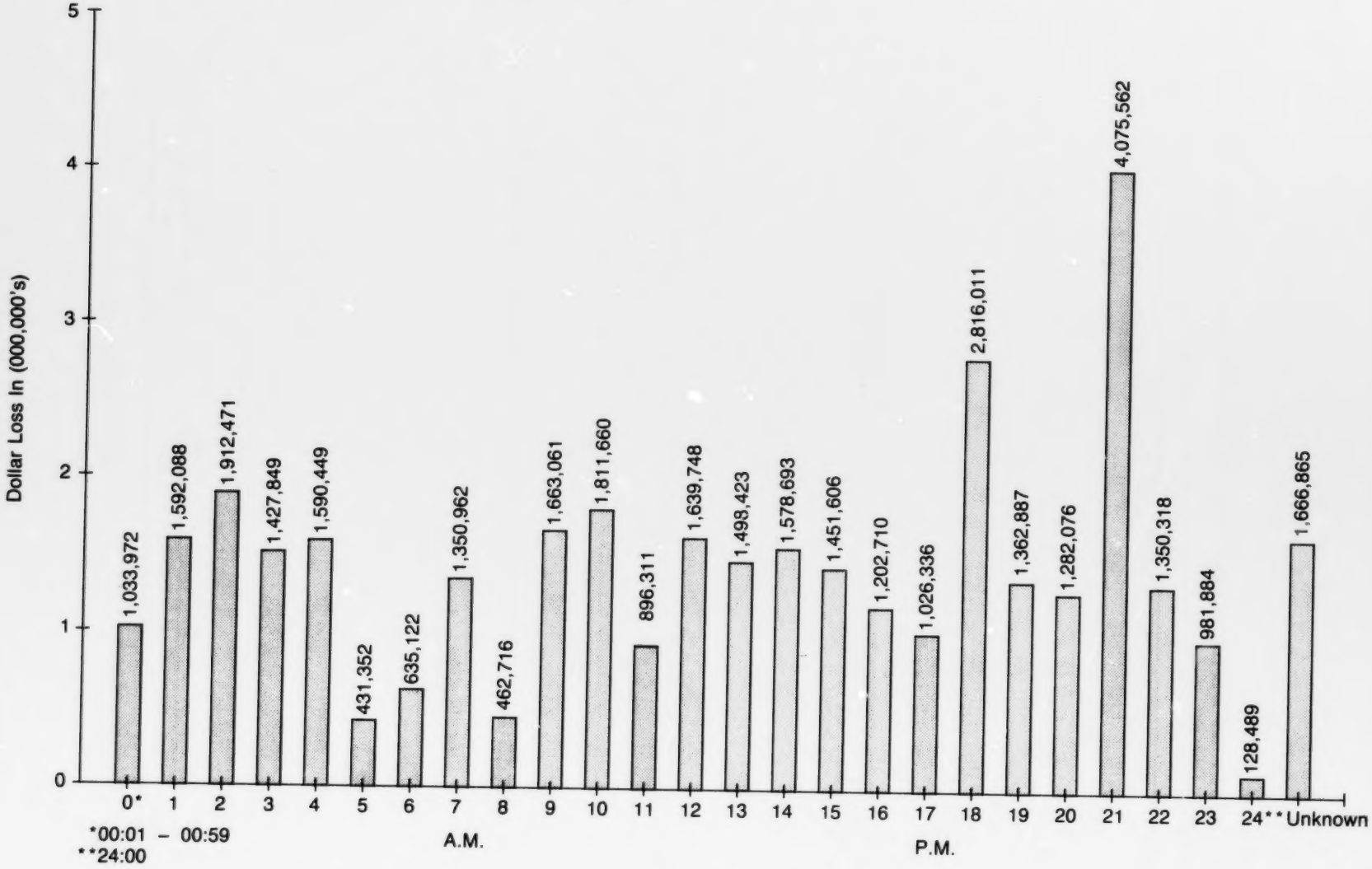


Table No. 3

Number of Fires Resulting in Death and Details of Fatalities, 1976-1985

Year	Number of Fatal Fires	Men	Women	Children[1]	Total Fatalities
1976	33	27	12	9	48
1977	43	46	15	14	75
1978	39	31	8	13	52
1979	32	24	6	14	44
1980	27	13	11	12	36
1981	36	25	15	12	52
1982	30	15	13	11	39
1983	36	26	9	15	50
1984	22	13	9	11	33
1985	26	22	8	8	38

[1]*Fifteen years of age and under*

Table No. 4

Breakdown of Fire Fatalities by Property Classification, 1985

Property Classification	Men	Women	Children	Total	Percent
Residential					
One and Two Family Residences, Duplex	13	7	5	25	65.79%
Apartment, Condominium	1	—	1	2	5.26
Rooming House	2	—	1	3	7.90
Motel	—	1	—	1	2.63
Mobile Home	2	—	1	3	7.90
Metal Refinery	1	—	—	1	2.63
Garage	1	—	—	1	2.63
Motor Vehicle	2	—	—	2	5.26
Total	**22**	**8**	**8**	**38**	**100.00%**

Table No. 5

Fire Fatalities by Age and Sex, 1985

	Five Years and Under	6-15	16-25	26-35	36-45	46-55	56-65	Over 65	Unknown	Total
Male	5	—	6	8	2	1	4	1	—	27
Female	1	2	2	2	1	—	3	—	—	11
Total	**6**	**2**	**8**	**10**	**3**	**1**	**7**	**1**	**—**	**38**

Table No. 6

Number of Fire Injuries, 1985

	Men	Women	Children	Total
Injuries	160	48	24	232

Table No. 7

Fire Injuries by Age and Sex, 1985

	Five Years and Under	6-15	16-25	26-35	36-45	46-55	56-65	Over 65	Unknown	Total
Male	6	8	20	41	40	18	17	4	20	174
Female	5	5	10	10	6	4	3	4	11	58
Total	**11**	**13**	**30**	**51**	**46**	**22**	**20**	**8**	**31**	**232**

Chart No. 7

Fire Fatalities by Hour of Day, 1985

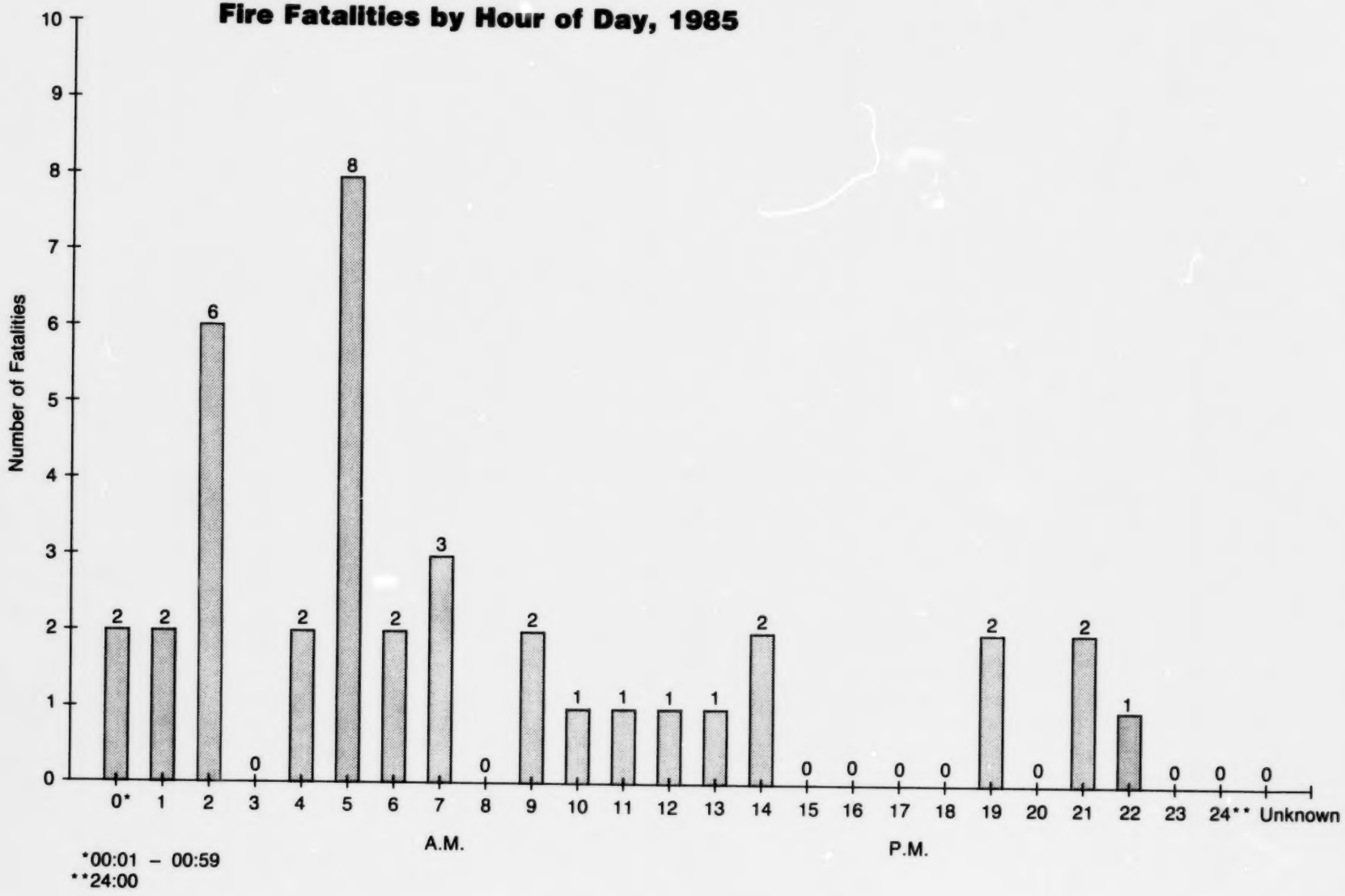


Chart No. 8

Fire Injuries by Hour of Day, 1985

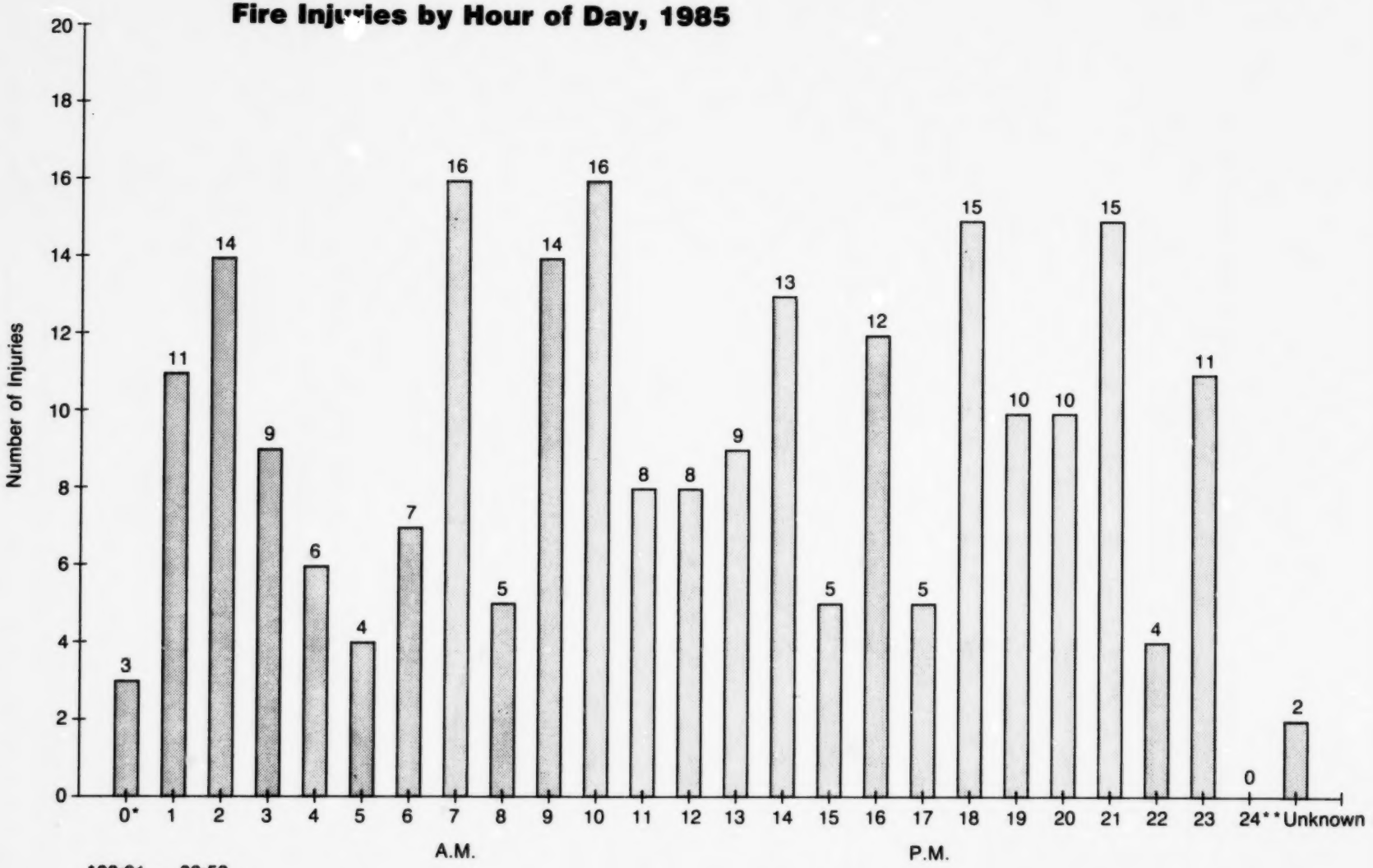


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Table No. 8

Breakdown of Fire Fatalities by Act or Omission, 1985

Act or Omission	Men	Women	Children	Total	Percent
Incendiary or Set Fire	1	—	—	1	2.63%
Misuse of Source of Ignition	2	1	1	4	10.53
Misuse of Material Ignited	—	—	—	—	—
Mechanical, Electrical Failure Malfunction	3	—	1	4	10.53
Construction, Design or Installation Deficiency	—	—	—	—	—
Misuse of Equipment	—	—	—	—	—
Human Failing	9	2	1	12	31.58
Vehicle Accident	1	—	—	1	2.63
Undetermined	6	5	5	16	42.10
Unclassified	—	—	—	—	—
Total	**22**	**8**	**8**	**38**	**100.00%**

Table No. 9

Circumstances Contributing to Fire Casualties, 1985

Condition of Casualty at Time of Fire	Fatalities	Injuries
Not applicable	4	149
Asleep at time of fire	7	29
Bedridden or other physical or mental handicap	—	1
Impairment by Alcohol	10	8
Impairment by Drugs	2	1
Under restraint or detention	—	—
Too young to act	7	6
Senile	—	1
Left unattended (children)	—	1
Unclassified or unknown	8	36
	38	**232**

Action of Casualty at Time of Fire	Fatalities	Injuries
Not applicable	8	97
Injured while attempting to escape	3	28
Over-exertion, heart attack, etc.	—	4
Voluntarily entered or remained for rescue purposes	—	14
Voluntarily entered or remained for fire fighting	—	43
Voluntarily entered or remained to save personal property	—	3
Loss of judgement; panic	4	6
Received delayed warning	—	4
Parents or guardian injured	—	2
Unclassified or unknown	23	31
	38	**232**

Table No. 9 (continued)

Circumstances Contributing to Fire Casualties, 1985

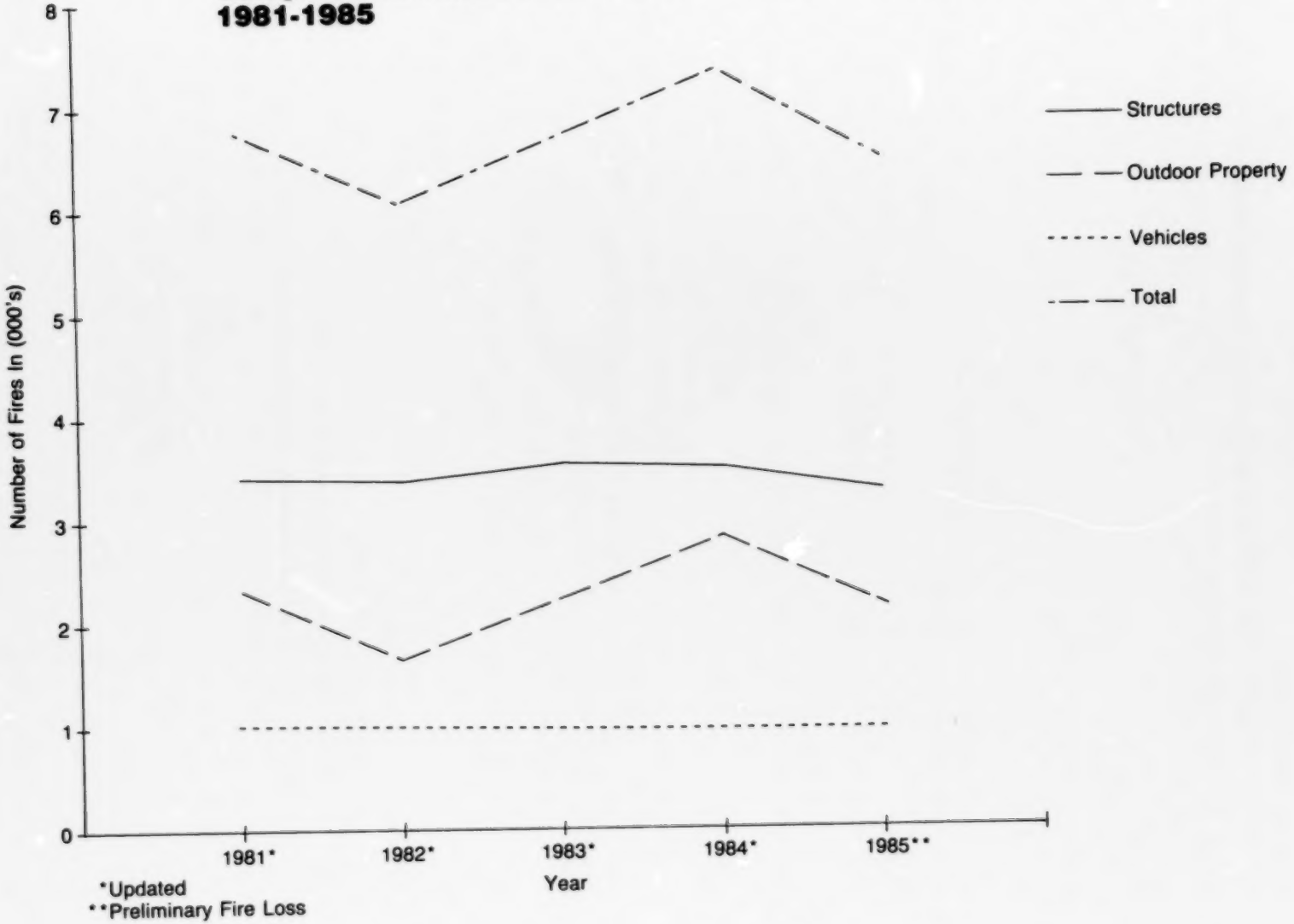
Ignition of Clothing at Time of Fire	Fatalities	Injuries
Not applicable	11	180
Outer clothing	7	14
Sleepwear	2	1
Underclothing	—	—
Costume	—	1
Bedding or bed linen; mattress or pillow	3	4
Upholstered furniture	2	6
Unclassified or unknown	13	26
	38	**232**

Type of Fabric or Material Ignited	Fatalities	Injuries
Not applicable	10	176
Cotton	3	7
Wool	—	—
Other natural fibre	—	1
Rayon (viscose)	—	—
Other synthetic fibre	—	3
Mixture fibres	3	6
Rubber	—	1
Plastic foam	—	4
Unclassified or unknown	22	34
	38	**232**

Cause of Failure to Escape	Fatalities	Injuries
Not applicable	5	190
Trapped by: rapid spread of fire/smoke through vertical openings; stairways, elevators	1	2
Trapped by: rapid spread of fire/smoke through horizontal openings	6	2
High flame spread of combustible interior finish of walls, ceilings, or floors	5	2
Building collapse	—	—
Falling debris	—	1
Explosion	—	5
Exit blocked or obstructed by fire	1	2
Outdoor fires, includes forest and bush	—	2
Unclassified or unknown	20	26
	38	**232**

Chart No. 9

Comparative Chart of the Total Number of Fires in Manitoba, 1981-1985



*Updated
**Preliminary Fire Loss

Table No. 10

Losses by Major Property Classifications, 1985

Property Classification	Number of Fires	Percent	Amount	Percent
ASSEMBLY				
Theatre, Studio, Auditorium	6	.09%	$ 105,975	.29%
Amusement and Recreation Place	21	.33	402,819	1.09
School, College, University	33	.51	492,168	1.33
Church, Court Room, Funeral Parlour	8	.12	507,083	1.39
Social, Sport Club	13	.20	333,450	.90
Library, Museum	3	.05	5,500	.01
Eating Establishment	37	.57	155,353	.42
Passenger Terminal, Station	1	.02	3,298	.01
Miscellaneous	2	.03	400	—
Sub-total	**124**	**1.92**	**2,006,046**	**5.44**
INSTITUTIONAL				
Prison, Jail, Reformatory	7	.11	28,300	.08
Home for the Aged	15	.23	11,882	.03
Children's Hospital	1	.02	15,000	.04
Hospital, Sanitorium, Clinic	27	.41	6,850	.02
Miscellaneous	1	.02	5,000	.01
Sub-total	**51**	**.79**	**67,032**	**.18**
RESIDENTIAL				
Residential	1,660	25.68	11,085,479	30.06
Apartment	401	6.21	1,593,258	4.32
Rooming, Boarding House	23	.36	201,810	.55
Hotel	63	.98	313,428	.85
Motor Hotel	10	.15	93,600	.25
Dormitory	12	.19	4,085	.01
Mobile Home	75	1.16	1,065,773	2.89
Miscellaneous	9	.14	2,722	.01
Sub-total	**2,253**	**34.87**	**14,360,155**	**38.94**
BUSINESS AND PERSONAL SERVICES				
Office	24	.37	218,973	.60
Personal Service	7	.11	78,921	.21
Electronic Equipment	—	—	—	—
Miscellaneous	1	.02	250	—
Sub-total	**32**	**.50**	**298,144**	**.81**

Table No. 10 (continued)

Losses by Major Property Classifications, 1985

Property Classification	Number of Fires	Percent	Amount	Percent
MERCANTILE				
Food, Beverage Sale	22	.34%	$ 2,156,567	5.85%
Textile, Wearing Apparel Sale	1	.02	500	—
Furniture, Appliance, Hardware Sale	4	.06	300,200	.81
Books, Newspapers, Drugs, Specialties	5	.08	3,260	.01
Recreation, Hobby Supplies	4	.06	725,437	1.97
Repair Shop, Laundry, Dry Cleaner	7	.11	144,545	.39
Motor Vehicle, Boat, Sales and Service	27	.41	1,340,490	3.64
Department, Variety Store	7	.11	809,400	2.20
Miscellaneous	4	.06	9,000	.02
Sub-total	**61**	**1.25**	**5,489,419**	**14.89**
INDUSTRIAL MANUFACTURING PROPERTIES				
Chemical, Petroleum, Paints, Plastics	7	.11	136,700	.37
Wood, Furniture, Paper Printing	15	.23	68,697	.19
Metal, Metal Products, Electrical Appliances	18	.28	50,047	.14
Food Processing	24	.37	1,079,643	2.92
Beverages, Tobacco, Soap, Margarine	2	.03	100	—
Textiles	2	.03	25,000	.07
Footwear, Wearing Apparel	2	.03	300,000	.81
Vehicles and Related Equipment	3	.05	450	—
Miscellaneous	9	.14	817,971	2.22
Sub-total	**82**	**1.27**	**2,478,608**	**6.72**
INDUSTRIAL STORAGE PROPERTIES				
Agricultural Products	18	.28	223,424	.61
Textiles, Fibres, Clothing	—	—	—	—
Processed Food, Beverages	—	—	—	—
Flammable Liquids, Gasses, Petroleum	3	.05	500	—
Wood Furniture, Paper and Products	5	.08	2,430,850	6.60
Chemicals, Plastics, Paints	2	.03	34,826	.09
Metal Goods, Machinery, Electrical Appliances	3	.05	75,000	.20
Vehicles	192	2.96	1,391,363	3.77
Miscellaneous	28	.43	842,581	2.29
Sub-total	**251**	**3.88**	**4,998,544**	**13.56**

Table No. 10 (continued)

Losses by Major Property Classifications, 1985

Property Classification	Number of Fires	Percent	Amount	Percent
SPECIAL PROPERTY-TRANSPORTATION EQUIPMENT				
Outdoor Property	2,135	33.04%	$ 570,906	1.55%
Pier, Wharf	3	.05	8,000	.02
Under Construction/Demolition: Vacant	103	1.59	607,465	1.65
Watercraft	9	.14	15,649	.04
Rail Transport Vehicle and Equipment	23	.36	183,995	.50
Ground Transport Vehicle	858	13.28	1,364,992	3.71
Aircraft	1	.02	—	—
Special Vehicle	154	2.38	678,429	1.84
Miscellaneous	5	.08	1,586	—
Sub-total	**3,291**	**50.94**	**3,431,022**	**9.31**
MISCELLANEOUS				
Laboratories	—	—	—	—
Farm Facilities	162	2.51	3,273,218	8.89
Miscellaneous Outbuildings	87	1.35	429,928	1.17
Utility	41	.63	1,808	—
Cement, Glass, Pottery Manufacturing	2	.03	850	—
Mining, Quarrying	—	—	—	—
Communications	2	.03	34,847	.09
Nucleonics	—	—	—	—
Miscellaneous	2	.03	—	—
Sub-total	**296**	**4.58**	**3,740,651**	**10.15**
Total	**6,461**	**100.00%**	**$36,869,621**	**100.00%**

Table No. 10(a)

Breakdown of Area of Origin by Property Classification, 1985

Area of Origin of Fire	Assembly				Institutional			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Means of Egress	22	17.74%	$ 201,425	10.04%	5	9.80%	$ 650	.97%
Assembly, Sales Area	14	11.29	808,451	40.31	7	13.73	20,450	30.51
Function Area	45	36.30	205,652	10.25	30	58.83	20,082	29.96
Storage Area	11	8.87	236,128	11.77	5	9.80	700	1.04
Service Facilities	1	.81	—	—	—	—	—	—
Service and Equipment Area	8	6.45	62,850	3.13	1	1.96	50	.07
Structural Area	16	12.90	409,540	20.42	1	1.96	900	1.34
Vehicle Area	—	—	—	—	—	—	—	—
Outside Area	2	1.61	39,000	1.94	—	—	—	—
Undetermined/Unclassified	5	4.03	43,000	2.14	2	3.92	24,200	36.11
Total	**124**	**100.00%**	**$ 2,006,046**	**100.00%**	**51**	**100.00%**	**$ 67,032**	**100.00%**

Table No. 10(b)

Breakdown of Area of Origin by Property Classification, 1985

Area of Origin of Fire	Residential				Business and Personal Services			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Means of Egress	90	3.99%	$ 603,716	4.20%	5	15.63%	$ 33,750	11.32%
Assembly, Sales Area	370	16.42	2,569,849	17.90	3	9.38	1,250	.42
Function Area	1,142	50.70	5,700,956	39.70	9	28.12	130,194	43.67
Storage Area	121	5.37	1,474,943	10.27	7	21.87	49,350	16.55
Service Facilities	207	9.19	638,412	4.45	2	6.25	10,000	3.35
Service and Equipment Area	68	3.02	426,819	2.97	2	6.25	—	—
Structural Area	149	6.61	1,335,937	9.30	2	6.25	9,500	3.19
Vehicle Area	5	.22	127,770	.89	—	—	—	—
Outside Area	16	.71	130,796	.91	—	—	—	—
Undetermined/Unclassified	85	3.77	1,350,957	9.41	2	6.25	64,100	21.50
Total	**2,253**	**100.00%**	**$14,360,155**	**100.00%**	**32**	**100.00%**	**$ 298,144**	**100.00%**

Table No. 10(c)

Breakdown of Area of Origin by Property Classification, 1985

Area of Origin of Fire	Mercantile				Industrial Manufacturing Properties			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Means of Egress	5	6.17%	$ 10,001	.18%	1	1.22%	$ 500	.02%
Assembly, Sales Area	4	4.94	43,617	.79	1	1.22	200	.01
Function Area	11	13.58	17,750	.32	34	41.46	795,154	32.08
Storage Area	21	25.92	2,163,745	39.42	12	14.63	801,000	32.32
Service Facilities	2	2.47	320,200	5.83	5	6.10	27,776	1.12
Service and Equipment Area	17	20.99	1,038,979	18.93	13	15.85	391,404	15.79
Structural Area	10	12.35	1,020,875	18.60	10	12.20	408,021	16.46
Vehicle Area	2	2.47	1,400	.03	—	—	—	—
Outside Area	3	3.70	3,540	.06	2	2.44	2,950	.12
Undetermined/Unclassified	6	7.41	869,312	15.84	4	4.88	51,603	2.08
Total	**81**	**100.00%**	**$ 5,489,419**	**100.00%**	**82**	**100.00%**	**$ 2,478,608**	**100.00%**

Table No. 10(d)

Breakdown of Area of Origin by Property Classification, 1985

Area of Origin of Fire	Industrial Storage Properties				Special Property — Transportation Equipment			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Means of Egress	2	.80%	$ 25,790	.52%	7	.21%	$ 38,500	1.12%
Assembly, Sales Area	1	.40	800	.02	7	.21	80,574	2.35
Function Area	6	2.39	321,582	6.43	12	.36	101,176	2.95
Storage Area	190	75.69	1,410,199	28.21	26	.79	61,350	1.79
Service Facilities	2	.80	100	—	3	.09	1,000	.03
Service and Equipment Area	2	.80	100,000	2.00	4	.12	4,760	.14
Structural Area	16	6.37	83,002	1.66	19	.58	90,515	2.64
Vehicle Area	17	6.77	573,328	11.47	1,033	31.39	2,211,122	64.43
Outside Area	9	3.59	2,410,650	48.23	2,145	65.19	651,399	18.99
Undetermined/Unclassified	6	2.39	73,093	1.46	35	1.06	190,626	5.56
Total	**251**	**100.00%**	**$ 4,998,544**	**100.00%**	**3,291**	**100.00%**	**$ 3,431,022**	**100.00%**

Table No. 10(e)

Breakdown of Area of Origin by Property Classification, 1985

Area of Origin of Fire	Miscellaneous Properties No.	Miscellaneous Properties Percent	Miscellaneous Properties Amount	Miscellaneous Properties Percent	Totals of All Property Classifications No.	Totals of All Property Classifications Percent	Totals of All Property Classifications Amount	Totals of All Property Classifications Percent
Means of Egress	—	—%	$ —	—%	137	2.12%	$ 914,332	2.48%
Assembly, Sales Area	15	5.07	13,795	.37	422	6.53	3,538,986	9.60
Function Area	4	1.35	2,909	.08	1,293	20.01	7,295,455	19.79
Storage Area	106	35.81	2,139,617	57.20	499	7.72	8,337,032	22.61
Service Facilities	4	1.35	151,950	4.06	226	3.50	1,149,438	3.12
Service and Equipment Area	13	4.39	104,976	2.81	128	1.98	2,129,838	5.78
Structural Area	24	8.11	768,605	20.55	247	3.82	4,126,895	11.19
Vehicle Area	6	2.03	24,446	.65	1,063	16.45	2,938,066	7.97
Outside Area	114	38.51	91,731	2.45	2,291	35.47	3,330,066	9.03
Undetermined/Unclassified	10	3.38	442,622	11.83	155	2.40	3,109,513	8.43
Total	**296**	**100.00%**	**$ 3,740,651**	**100.00%**	**6,461**	**100.00%**	**$36,869,621**	**100.00%**

Table No. 11

Breakdown of Act or Omission by Property Classification, 1985

Act or Omission	Assembly				Institutional			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Incendiary or Set Fire	52	41.94%	$ 1,163,428	58.01%	2	3.92%	$ 200	.30%
Misuse of Source of Ignition	13	10.48	13,713	.68	29	56.87	22,082	32.94
Misuse of Material Ignited	6	4.84	131,200	6.54	2	3.92	150	.22
Mechanical, Electrical Failure, Malfunction	22	17.74	227,170	11.32	9	17.65	11,150	16.63
Construction, Design or Installation Deficiency	2	1.61	1,100	.05	1	1.96	900	1.34
Misuse of Equipment	—	—	—	—	—	—	—	—
Human Failing	17	13.71	147,535	7.35	6	11.76	6,050	9.03
Vehicle Accident	—	—	—	—	—	—	—	—
Unclassified	—	—	—	—	—	—	—	—
Undetermined/Not Applicable	12	9.68	321,900	16.05	2	3.92	26,500	39.54
Total	**124**	**100.00%**	**$ 2,006,046**	**100.00%**	**51**	**100.00%**	**$ 67,032**	**100.00%**

Table No. 11(a)

Breakdown of Act or Omission by Property Classification, 1985

Act or Omission	Residential				Business and Personal Services			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Incendiary or Set Fire	162	7.19%	$ 1,409,651	9.82%	8	24.99%	$ 115,596	38.77%
Misuse of Source of Ignition	454	20.15	2,249,331	15.66	5	15.63	51,150	17.16
Misuse of Material Ignited	71	3.15	500,268	3.48	—	—	—	—
Mechanical, Electrical Failure, Malfunction	483	21.44	3,221,660	22.44	9	28.12	17,548	5.89
Construction, Design or Installation Deficiency	73	3,24	516,878	3.60	1	3.13	1,500	.50
Misuse of Equipment	35	1.55	335,034	2.33	—	—	—	—
Human Failing	655	29.08	2,190,113	15.25	3	9.38	250	.08
Vehicle Accident	2	.09	25,000	.17	—	—	—	—
Unclassified	76	3.37	290,411	2.02	—	—	—	—
Undetermined/Not Applicable	242	10.74	3,621,809	25.23	6	18.75	112,100	37.60
Total	**2,253**	**100.00%**	**$14,360,155**	**100.00%**	**32**	**100.00%**	**$ 298,144**	**100.00%**

Table No. 11(b)

Breakdown of Act or Omission by Property Classification, 1985

Act or Omission	Mercantile No.	Mercantile Percent	Mercantile Amount	Mercantile Percent	Industrial Manufacturing Properties No.	Industrial Manufacturing Properties Percent	Industrial Manufacturing Properties Amount	Industrial Manufacturing Properties Percent
Incendiary or Set Fire	20	24.69%	$ 1,775,651	32.34%	5	6.10%	$ 59,924	2.42%
Misuse of Source of Ignition	15	18.52	457,140	8.33	9	10.98	17,647	.71
Misuse of Material Ignited	5	6.17	133,150	2.43	7	8.54	8,586	.35
Mechanical, Electrical Failure, Malfunction	20	24.69	239,266	4.36	23	28.04	1,110,961	44.82
Construction, Design or Installation Deficiency	—	—	—	—	1	1.22	300	.01
Misuse of Equipment	—	—	—	—	4	4.88	4,716	.19
Human Failing	—	—	—	—	3	3.66	5,050	.20
Vehicle Accident	—	—	—	—	—	—	—	—
Unclassified	—	—	—	—	1	1.22	2,000	.08
Undetermined/Not Applicable	21	25.93	2,884,212	52.54	29	35.36	1,269,424	51.22
Total	**81**	**100.00%**	**$ 5,489,419**	**100.00%**	**82**	**100.00%**	**$ 2,478,608**	**100.00%**

Table No. 11(c)

Breakdown of Act or Omission by Property Classification, 1985

Act or Omission	Industrial Storage Properties No.	Industrial Storage Properties Percent	Industrial Storage Properties Amount	Industrial Storage Properties Percent	Special Property — Transportation Equipment No.	Special Property — Transportation Equipment Percent	Special Property — Transportation Equipment Amount	Special Property — Transportation Equipment Percent
Incendiary or Set Fire	89	35.46%	$ 931,633	18.64%	1,563	47.49%	$ 643,122	18.74%
Misuse of Source of Ignition	24	9.56	2,528,003	50.58	309	9.39	347,935	10.14
Misuse of Material Ignited	14	5.58	69,200	1.38	26	.79	102,216	2.98
Mechanical, Electrical Failure, Malfunction	44	17.53	337,546	6.75	307	9.33	693,161	20.20
Construction, Design or Installation Deficiency	9	3.59	71,800	1.44	2	.06	50	—
Misuse of Equipment	4	1.59	21,202	.42	3	.09	7,763	.23
Human Failing	6	2.39	42,950	.86	44	1.34	215,153	6.27
Vehicle Accident	—	—	—	—	20	.61	21,736	.63
Unclassified	7	2.79	120,450	2.41	82	2.49	98,448	2.87
Undetermined/Not Applicable	54	21.51	875,760	17.52	935	28.41	1,301,438	37.94
Total	**251**	**100.00%**	**$ 4,998,544**	**100.00%**	**3,291**	**100.00%**	**$ 3,431,022**	**100.00%**

Table No. 11(d)

Breakdown of Act or Omission by Property Classification, 1985

Act or Omission	Miscellaneous Properties				Totals of All Property Classifications			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Incendiary or Set Fire	60	20.27%	$ 209,353	5.60%	1,961	30.35%	$ 6,308,558	17.11%
Misuse of Source of Ignition	42	14.19	257,255	6.88	900	13.93	5,944,256	16.12
Misuse of Material Ignited	12	4.05	60,346	1.61	143	2.21	1,005,116	2.73
Mechanical, Electrical Failure, Malfunction	68	22.97	587,029	15.69	985	15.25	6,445,491	17.48
Construction, Design or Installation Deficiency	3	1.01	35,545	.95	92	1.42	628,073	1.70
Misuse of Equipment	3	1.01	135,000	3.61	49	.76	503,715	1.37
Human Failing	2	.68	2,320	.06	736	11.39	2,609,421	7.08
Vehicle Accident	—	—	—	—	22	.34	46,736	.13
Unclassified	20	6.76	114,119	3.05	186	2.88	625,428	1.70
Undetermined/Not Applicable	86	29.06	2,339,684	62.55	1,387	21.47	12,752,827	34.58
Total	**296**	**100.00%**	**$ 3,740,651**	**100.00%**	**6,461**	**100.00%**	**$36,869,621**	**100.00%**

Table No. 12

Breakdown of Source of Heat of Ignition by Property Classification, 1985

Source of Heat of Ignition	Assembly No.	Assembly Percent	Assembly Amount	Assembly Percent	Institutional No.	Institutional Percent	Institutional Amount	Institutional Percent
Electrical Distribution Equipment-Aluminum	—	—%	$ —	—%	—	—%	$ —	—%
Heating Equipment	8	6.45	191,600	9.55	2	3.92	650	.97
Cooking Equipment	24	19.35	61,127	3.05	4	7.84	1,600	2.39
Smoker's Material	6	4.84	7,513	.37	28	54.91	24,582	36.67
Electrical Distribution Equipment-Copper	7	5.65	8,350	.42	2	3.92	10,200	15.22
Electrical Appliance and Equipment	3	2.42	39,005	1.94	1	1.96	50	.07
Other Appliance and Equipment	1	.81	1,000	.05	6	11.76	5,650	8.43
Open Flame	61	49.19	1,264,211	63.02	7	13.73	300	.45
Exposure	1	.81	4,000	.20	—	—	—	—
Miscellaneous	2	1.61	5,000	.25	—	—	—	—
Undetermined/Unclassified	11	8.87	424,240	21.15	1	1.96	24,000	35.80
Total	**124**	**100.00%**	**$ 2,006,046**	**100.00%**	**51**	**100.00%**	**$ 67,032**	**100.00%**

Table No. 12(a)

Breakdown of Source of Heat of Ignition by Property Classification, 1985

Source of Heat of Ignition	Residential No.	Residential Percent	Residential Amount	Residential Percent	Business and Personal Services No.	Business and Personal Services Percent	Business and Personal Services Amount	Business and Personal Services Percent
Electrical Distribution Equipment-Aluminum	11	.49%	$ 77,551	.54%	—	—%	$ —	—%
Heating Equipment	416	18.46	2,517,263	17.53	2	6.25	—	—
Cooking Equipment	648	28.77	1,835,540	12.78	4	12.50	1,000	.34
Smoker's Material	345	15.31	1,544,159	10.75	4	12.50	41,400	13.89
Electrical Distribution Equipment-Copper	133	5.90	1,754,693	12.22	5	15.63	13,777	4.62
Electrical Appliance and Equipment	95	4.22	481,869	3.36	1	3.13	1,000	.34
Other Appliance and Equipment	66	2.93	108,836	.76	1	3.13	3,271	1.10
Open Flame	271	12.03	2,038,495	14.20	6	18.74	61,896	20.76
Exposure	12	.53	124,850	.87	3	9.38	3,700	1.24
Miscellaneous	68	3.02	286,571	2.00	—	—	—	—
Undetermined/Unclassified	188	8.34	3,590,328	24.99	6	18.74	172,100	57.71
Total	**2,253**	**100.00%**	**$14,360,155**	**100.00%**	**32**	**100.00%**	**$ 298,144**	**100.00%**

Table No. 12(b)

Breakdown of Source of Heat of Ignition by Property Classification, 1985

Source of Heat of Ignition	Mercantile No.	Mercantile Percent	Mercantile Amount	Mercantile Percent	Industrial Manufacturing Properties No.	Industrial Manufacturing Properties Percent	Industrial Manufacturing Properties Amount	Industrial Manufacturing Properties Percent
Electrical Distribution Equipment-Aluminum	—	—%	$ —	—%	—	—%	$ —	—%
Heating Equipment	6	7.41	450,350	8.20	9	10.98	480,840	19.40
Cooking Equipment	1	1.23	350	.01	3	3.66	7,776	.31
Smoker's Material	3	3.70	45,200	.82	2	2.44	200	.01
Electrical Distribution Equipment-Copper	10	12.35	61,629	1.12	8	9.76	307,161	12.39
Electrical Appliance and Equipment	4	4.94	407,117	7.42	6	7.32	10,500	.42
Other Appliance and Equipment	6	7.41	5,250	.10	4	4.88	1,300	.05
Open Flame	26	32.09	1,653,091	30.11	13	15.85	61,781	2.49
Exposure	4	4.94	246,720	4.49	1	1.22	310,500	12.53
Miscellaneous	2	2.47	3,000	.05	16	19.51	42,547	1.72
Undetermined/Unclassified	19	23.46	2,616,712	47.68	20	24.38	1,256,003	50.68
Total	**81**	**100.00%**	**$ 5,489,419**	**100.00%**	**82**	**100.00%**	**$ 2,478,608**	**100.00%**

Table No. 12(c)

Breakdown of Source of Heat of Ignition by Property Classification, 1985

Source of Heat of Ignition	Industrial Storage Properties No.	Industrial Storage Properties Percent	Industrial Storage Properties Amount	Industrial Storage Properties Percent	Special Property — Transportation Equipment No.	Special Property — Transportation Equipment Percent	Special Property — Transportation Equipment Amount	Special Property — Transportation Equipment Percent
Electrical Distribution Equipment-Aluminum	1	.40%	$ 4,000	.08%	—	—%	$ —	—%
Heating Equipment	18	7.17	146,653	2.93	22	.67	224,492	6.54
Cooking Equipment	2	.80	5,050	.10	50	1.52	55,189	1.61
Smoker's Material	5	1.99	10,500	.21	53	1.61	7,826	.23
Electrical Distribution Equipment-Copper	26	10.36	321,692	6.44	115	3.49	232,316	6.77
Electrical Appliance and Equipment	14	5.58	26,594	.53	10	.30	12,385	.36
Other Appliance and Equipment	8	3.19	60,471	1.21	158	4.80	426,038	12.42
Open Flame	92	36.65	3,108,136	62.19	1,810	55.01	927,174	27.02
Exposure	19	7.57	62,960	1.26	59	1.79	118,422	3.45
Miscellaneous	11	4.38	214,138	4.28	55	1.67	97,612	2.84
Undetermined/Unclassified	55	21.91	1,038,350	20.77	959	29.14	1,329,568	38.76
Total	**251**	**100.00%**	**$ 4,998,544**	**100.00%**	**3,291**	**100.00%**	**$ 3,431,022**	**100.00%**

Table No. 12(d)

Breakdown of Source of Heat of Ignition by Property Classification, 1985

Source of Heat of Ignition	Miscellaneous Properties No.	Percent	Amount	Percent	Totals of All Property Classifications No.	Percent	Amount	Percent
Electrical Distribution Equipment-Aluminum	—	—%	$ —	—%	12	.19%	$ 81,551	.22%
Heating Equipment	8	2.70	183,545	4.91	491	7.60	4,195,393	11.38
Cooking Equipment	1	.34	150	—	737	11.41	1,967,782	5.34
Smoker's Material	8	2.70	16,500	.44	454	7.03	1,697,880	4.61
Electrical Distribution Equipment-Copper	48	16.22	351,772	9.40	354	5.48	3,061,590	8.30
Electrical Appliance and Equipment	14	4.73	234,727	6.28	148	2.29	1,213,247	3.29
Other Appliance and Equipment	7	2.36	19,615	.52	257	3.98	631,431	1.71
Open Flame	88	29.74	346,938	9.27	2,374	36.73	9,462,022	25.66
Exposure	7	2.36	1,320	.04	106	1.64	872,472	2.37
Miscellaneous	28	9.46	165,350	4.42	182	2.82	814,218	2.21
Undetermined/Unclassified	87	29.39	2,420,734	64.72	1,346	20.83	12,872,035	34.91
Total	**296**	**100.00%**	**$ 3,740,651**	**100.00%**	**6,461**	**100.00%**	**$36,869,621**	**100.00%**

Table No. 13

Breakdown of Fuel or Energy by Property Classification, 1985

Fuel or Energy	Assembly				Institutional			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Coal, Wood	9	7.26%	$ 1,700	.08%	1	1.96%	$ 50	.07%
Fuel Oil	1	.81	10,500	.52	—	—	—	—
Gasoline	—	—	—	—	—	—	—	—
Natural Gas	9	7.26	18,037	.90	—	—	—	—
Propane	8	6.45	397,500	19.82	4	7.84	250	.37
Smoker's Material	6	4.84	7,513	.37	28	54.91	24,582	36.67
Electricity	25	20.16	206,902	10.31	13	25.49	12,750	19.02
Lightning	—	—	—	—	—	—	—	—
Unclassified	2	1.61	101,583	5.06	1	1.96	4,500	6.71
Undetermined/Not Applicable	64	51.61	1,262,311	62.94	4	7.84	24,900	37.16
Total	**124**	**100.00%**	**$ 2,006,046**	**100.00%**	**51**	**100.00%**	**$ 67,032**	**100.00%**

Table No. 13(a)

Breakdown of Fuel or Energy by Property Classification, 1985

Fuel or Energy	Residential				Business and Personal Services			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Coal, Wood	375	16.64%	$ 2,218,295	15.45%	1	3.13%	$ —	—%
Fuel Oil	17	.75	168,635	1.17	—	—	—	—
Gasoline	7	.31	22,100	.15	1	3.13	—	—
Natural Gas	37	1.64	227,099	1.58	—	—	—	—
Propane	72	3.20	699,791	4.87	—	—	—	—
Smoker's Material	342	15.18	1,542,010	10.74	3	9.38	41,150	13.80
Electricity	878	38.97	4,352,335	30.31	12	37.49	19.298	6.47
Lightning	52	2.31	203,409	1.42	—	—	—	—
Unclassified	52	2.31	200,513	1.40	2	6.25	35,000	11.74
Undetermined/Not Applicable	421	18.69	4,725,968	32.91	13	40.62	202,696	67.99
Total	**2,253**	**100.00%**	**$14,360,155**	**100.00%**	**32**	**100.00%**	**$ 298,144**	**100.00%**

Table No. 13(b)

Breakdown of Fuel or Energy by Property Classification, 1985

Fuel or Energy	Mercantile				Industrial Manufacturing Properties			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Coal, Wood	2	2.47%	$ 1	—%	12	14.63%	$ 6,900	.28%
Fuel Oil	—	—	—	—	1	1.22	—	—
Gasoline	5	6.17	392,275	7.15	1	1.22	7,047	.28
Natural Gas	3	3.70	100,350	1.83	4	4.88	468,000	18.88
Propane	5	6.17	2,100	.04	5	6.10	1,800	.07
Smoker's Material	3	3.70	45,200	.82	2	2.44	200	.01
Electricity	20	24.69	278,016	5.06	21	25.61	652,061	26.31
Lightning	—	—	—	—	—	—	—	—
Unclassified	2	2.47	2,800	.05	3	3.66	3,226	.13
Undetermined/Not Applicable	41	50.63	4,668,677	85.05	33	40.24	1,339,374	54.04
Total	**81**	**100.00%**	**$ 5,489,419**	**100.00%**	**82**	**100.00%**	**$ 2,478,608**	**100.00%**

Table No. 13(c)

Breakdown of Fuel or Energy by Property Classification, 1985

Fuel or Energy	Industrial Storage Properties				Special Property — Transportation Equipment			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Coal, Wood	30	11.95%	$ 212,423	4.25%	199	6.05%	$ 259,860	7.57%
Fuel Oil	3	1.20	7,000	.14	38	1.15	6,154	.18
Gasoline	5	1.99	26,763	.54	138	4.19	459,205	13.38
Natural Gas	2	.80	7,225	.14	1	.03	350	.01
Propane	8	3.19	74,082	1.48	74	2.25	156,766	4.57
Smoker's Material	5	1.99	10,500	.21	53	1.61	7,826	.23
Electricity	44	17.53	342,258	6.85	139	4.22	258,563	7.54
Lightning	5	1.99	120,250	2.41	3	.09	1,700	.05
Unclassified	5	1.99	50,000	1.00	25	.76	14,574	.42
Undetermined/Not Applicable	144	57.37	4,148,043	82.98	2,621	79.65	2,266,024	66.05
Total	**251**	**100.00%**	**$ 4,998,544**	**100.00%**	**3,291**	**100.00%**	**$ 3,431,022**	**100.00%**

Table No. 13(d)

Breakdown of Fuel or Energy by Property Classification, 1985

Fuel or Energy	Miscellaneous Properties				Totals of All Property Classifications			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Coal, Wood	31	10.47%	$ 229,364	6.13%	660	10.22%	$ 2,928,593	7.94%
Fuel Oil	—	—	—	—	60	.93	192,289	.52
Gasoline	9	3.04	15,115	.40	166	2.57	922,505	2.50
Natural Gas	1	.34	550	.01	57	.88	321,611	2.23
Propane	5	1.69	215,095	5.75	181	2.80	1,547,384	4.20
Smoker's Material	8	2.70	16,500	.44	450	6.96	1,695,481	4.60
Electricity	60	20.27	418,540	11.19	1,212	18.76	6,540,723	17.74
Lightning	10	3.38	113,950	3.05	70	1.08	439,309	1.19
Unclassified	12	4.05	93,409	2.50	104	1.61	505,605	1.37
Undetermined/Not Applicable	160	54.06	2,638,128	70.53	3,501	54.19	21,276,121	57.71
Total	**296**	**100.00%**	**$ 3,740,651**	**100.00%**	**6,461**	**100.00%**	**$36,869,621**	**100.00%**

Table No. 14

Breakdown of Material First Ignited by Property Classification, 1985

Material First Ignited	Assembly No.	Assembly Percent	Assembly Amount	Assembly Percent	Institutional No.	Institutional Percent	Institutional Amount	Institutional Percent
Structural Component, Finish Material	9	7.26%	$ 104,183	5.19%	2	3.92%	$ 1,250	1.86%
Furniture, Furnishing	6	4.84	137,924	6.88	11	21.57	20,950	31.25
Clothing, Textile	3	2.42	1,089	.05	5	9.80	5,782	8.63
Wood, Paper Product	28	22.58	1,031,258	51.41	12	23.53	12,500	18.65
Flammable Liquid	30	24.18	124,677	6.22	2	3.92	50	.07
Flammable Gas	1	.81	50,000	2.49	—	—	—	—
Chemical	1	.81	25	—	1	1.96	100	.15
Agricultural, Forest Product	—	—	—	—	2	3.92	250	.37
Miscellaneous	26	20.97	26,450	1.32	15	29.42	2,150	3.21
Undetermined/Unclassified	20	16.13	530,440	26.44	1	1.96	24,000	35.81
Total	**124**	**100.00%**	**$ 2,006,046**	**100.00%**	**51**	**100.00%**	**$ 67,032**	**100.00%**

Table No. 14(a)

Breakdown of Material First Ignited by Property Classification, 1985

Material First Ignited	Residential No.	Residential Percent	Residential Amount	Residential Percent	Business and Personal Services No.	Business and Personal Services Percent	Business and Personal Services Amount	Business and Personal Services Percent
Structural Component, Finish Material	330	14.65%	$ 1,924,167	13.40%	2	6.25%	$ 2,500	.84%
Furniture, Furnishing	443	19.66	2,234,309	15.56	1	3.13	250	.08
Clothing, Textile	84	3.73	298,714	2.08	2	6.25	4,271	1.43
Wood, Paper Product	163	7.23	927,185	6.46	7	21.87	30,596	10.26
Flammable Liquid	506	22.46	1,944,216	13.54	4	12.50	25,000	8.39
Flammable Gas	16	.71	89,265	.62	1	3.13	—	—
Chemical	31	1.38	102,352	.71	—	—	—	—
Agricultural, Forest Product	16	.71	100,825	.70	—	—	—	—
Miscellaneous	395	17.53	2,003,653	13.95	10	31.24	63,427	21.27
Undetermined/Unclassified	269	11.94	4,735,469	32.98	5	15.63	172,100	57.73
Total	**2,253**	**100.00%**	**$14,360,155**	**100.00%**	**32**	**100.00%**	**$ 298,144**	**100.00%**

Table No. 14(b)

Breakdown of Material First Ignited by Property Classification, 1985

Material First Ignited	Mercantile				Industrial Manufacturing Properties			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Structural Component, Finish Material	4	4.94%	$ 71,317	1.30%	11	13.41%	$ 18,207	.73%
Furniture, Furnishing	2	2.47	1,500	.03	—	—	—	—
Clothing, Textile	2	2.47	200	—	—	—	—	—
Wood, Paper Product	13	16.05	1,851,571	33.73	15	18.29	52,201	2.11
Flammable Liquid	10	12.35	151,625	2.76	8	9.76	485,247	19.58
Flammable Gas	1	1.23	350,000	6.38	2	2.44	1,000	.04
Chemical	2	2.47	2,300	.04	6	7.32	295,400	11.92
Agricultural, Forest Product	3	3.70	200	—	7	8.54	1,753	.07
Miscellaneous	18	22.22	66,494	1.21	17	20.73	333,650	13.46
Undetermined/Unclassified	26	32.10	2,994,212	54.55	16	19.51	1,291,150	52.09
Total	**81**	**100.00%**	**$ 5,489,419**	**100.00%**	**82**	**100.00%**	**$ 2,478,608**	**100.00%**

Table No. 14(c)

Breakdown of Material First Ignited by Property Classification, 1985

Material First Ignited	Industrial Storage Properties				Special Property — Transportation Equipment			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Structural Component, Finish Material	35	13.94%	$ 352,139	7.04%	18	.55%	$ 30,840	.90%
Furniture, Furnishing	10	3.98	17,636	.35	48	1.46	89,809	2.62
Clothing, Textile	1	.40	30	—	27	.82	66,918	1.95
Wood, Paper Product	29	11.55	138,548	2.77	139	4.22	111,084	3.24
Flammable Liquid	20	7.97	448,276	8.97	143	4.35	184,137	5.37
Flammable Gas	7	2.79	28,282	.57	45	1.37	12,878	.38
Chemical	6	2.39	32,050	.64	30	.91	4,860	.14
Agricultural, Forest Product	9	3.59	2,444,484	48.91	819	24.89	586,585	17.10
Miscellaneous	42	16.73	171,187	3.42	1,306	39.67	601,778	17.53
Undetermined/Unclassified	92	36.66	1,365,912	27.33	716	21.76	1,742,133	50.77
Total	**251**	**100.00%**	**$ 4,998,544**	**100.00%**	**3,291**	**100.00%**	**$ 3,431,022**	**100.00%**

Table No. 14(d)

Breakdown of Material First Ignited by Property Classification, 1985

Material First Ignited	Miscellaneous Properties				Totals of All Property Classifications			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Structural Component, Finish Material	20	6.76%	$ 297,123	7.94%	431	6.67%	$ 2,801,726	7.60%
Furniture, Furnishing	3	1.01	5,800	.16	524	8.11	2,508,178	6.80
Clothing, Textile	2	.68	1,300	.03	126	1.95	378,304	1.03
Wood, Paper Product	35	11.82	300,970	8.05	441	6.83	4,455,913	12.09
Flammable Liquid	13	4.39	25,536	.68	736	11.39	3,388,764	9.19
Flammable Gas	2	.68	—	—	75	1.16	531,425	1.44
Chemical	1	.34	7,000	.19	78	1.21	444,087	1.20
Agricultural, Forest Product	99	33.44	553,489	14.80	955	14.78	3,687,586	10.00
Miscellaneous	47	15.88	56,528	1.51	1,876	29.03	3,325,317	9.02
Undetermined/Unclassified	74	25.00	2,492,905	66.64	1,219	18.87	15,348,321	41.63
Total	**296**	**100.00%**	**$ 3,740,651**	**100.00%**	**6,461**	**100.00%**	**$36,869,621**	**100.00%**

Table No. 15

Number of Fires and Amount of Fire Loss by Community or Area, 1985

Municipal Code	Name	Number of Fires	Amount of Loss
001	R.M. of Albert	3	$ —
002	Town of Altona	7	8,899
003	Village of Arborg	6	44,615
004	R.M. of Archie	6	103,084
005	R.M. of Argyle	4	236,228
006	R.M. of Arthur	3	1,450
010	Town of Beausejour	9	134,800
011	Village of Benito	1	850
012	R.M. of Bifrost	20	887,867
013	Village of Binscarth	2	1,600
014	R.M. of Birtle	4	83,138
015	Town of Birtle	1	—
016	R.M. of Blanshard	2	—
017	Town of Boissevain	5	6,607
018	R.M. of Boulton	3	—
019	Village of Bowsman	3	—
020	City of Brandon	204	320,962
021	R.M. of Brenda	1	12,000
022	R.M. of Brokenhead	23	253,939
023	Government Services	5	2,500
027	Town of Carberry	1	750
028	Town of Carman	5	172,240
029	R.M. of Cartier	15	147,800
030	Village of Cartwright	3	3,450
032	R.M. of Clanwilliam	2	—
033	R.M. of Coldwell	4	89,625
034	R.M. of Cornwallis	17	131,136
038	R.M. of Daly	3	31,000
039	R.M. of Dauphin	21	296,688
040	Town of Dauphin	51	441,596
041	Town of Deloraine	2	50,200
042	R.M. of De Salaberry	3	58,900
043	R.M. of Dufferin	13	165,059
044	Village of Dunnottar	4	525
048	R.M. of East St. Paul	28	195,288
049	R.M. of Edward	1	—
051	R.M. of Ellice	3	21,521
052	R.M. of Elton	9	128,859
053	Town of Emerson	2	800,500
054	Village of Erickson	2	32,860
055	R.M. of Eriksdale	4	24,400
056	R.M. of Ethelbert	5	8,040
057	Village of Ethelbert	4	750
058	Village of Elm Creek	2	—
060	City of Flin Flon	48	294,030
063	R.M. of Franklin	29	27,585
066	Village of Garson	1	413
067	R.M. of Gilbert Plains	8	55,376
068	Village of Gilbert Plains	7	94,734
069	R.M. of Gimli	12	151,197
070	Town of Gimli	6	12,200

Table No. 15 (continued)

Number of Fires and Amount of Fire Loss by Community or Area, 1985

Municipal Code	Name	Number of Fires	Amount of Loss
071	Town of Gladstone	2	$ 5,500
073	R.M. of Glenella	4	13,559
075	R.M. of Grandview	2	43,127
076	Town of Grandview	1	—
077	Village of Grand Marais	3	115,925
078	Village of Gretna	2	1,300
079	R.M. of Grey	9	17,529
082	R.M. of Hamiota	2	—
083	Village of Hamiota	1	475
084	R.M. of Hanover	64	1,273,832
085	R.M. of Harrison	2	—
087	R.M. of Hillsburg	1	30,000
090	Town of Killarney	9	4,721
093	R.M. of la Broquerie	10	71,492
094	R.M. of Lac du Bonnet	8	261,942
095	Village of Lac du Bonnet	4	2,400
096	R.M. of Lakeview	3	4,300
097	R.M. of Langford	4	35,800
098	R.M. of Lansdowne	3	147,100
099	R.M. of Lawrence	6	12,111
100	R.M. of Lorne	10	37,092
101	R.M. of Louise	8	22,296
102	Village of Lowe Farm	1	—
103	Village of Letellier	1	2,000
104	R.M. of MacDonald	29	414,106
105	Village of MacGregor	1	1,700
107	R.M. of McCreary	1	2,436
108	Village of McCreary	2	50,700
111	Town of Melita	7	67,532
112	R.M. of Miniota	10	—
113	R.M. of Minitonas	8	175,792
114	Village of Minitonas	2	31,428
115	Town of Minnedosa	4	4,400
116	R.M. of Minto	3	10,000
117	R.M. of Montcalm	8	134,328
118	Town of Morden	18	457,942
119	R.M. of Morris	19	93,987
120	Town of Morris	7	4,394
121	R.M. of Morton	10	450
122	R.M. of Mossey River	9	41,809
125	Town of Neepawa	7	7,000
126	Village of Niverville	4	107,055
127	R.M. of North Cypress	9	30,050
129	R.M. of North Norfolk	14	357,549
130	Village of Notre Dame de Lourdes	1	—
133	Town of Oak Lake	1	500
134	R.M. of Oakland	8	62,150
135	R.M. of Ochre River	4	62,700
136	R.M. of Odanah	2	2,403
140	R.M. of Pembina	4	75,905
141	Village of Pilot Mound	1	200

Table No. 15 (continued)

Number of Fires and Amount of Fire Loss by Community or Area, 1985

Municipal Code	Name	Number of Fires	Amount of Loss
142	R.M. of Pipestone	7	$ 8,450
143	Village of Plum Coulee	2	1,769
144	R.M. of Portage la Prairie	14	271,800
145	City of Portage la Prairie	32	221,399
148	Village of Rathwell	3	78,800
149	Town of Rapid City	3	1,000
150	R.M. of Rhineland	25	53,719
151	R.M. of Ritchot	11	143,790
152	Town of Rivers	2	45,500
153	R.M. of Riverside	1	—
154	Village of Riverton	6	121,493
155	R.M. of Roblin	7	32,699
156	Town of Roblin	8	7,978
157	R.M. of Rockwood	28	610,281
158	R.M. of Roland	2	36,600
159	R.M. of Rosedale	4	7,500
160	R.M. of Rossburn	5	59,401
161	Village of Rossburn	1	87
162	R.M. of Rosser	15	59,750
163	R.M. of Russell	3	35,347
165	Village of Richer	3	68,115
167	R.M. of St. Andrews	31	371,641
168	R.M. of Ste. Anne	21	142,846
169	Village of Ste. Anne	5	3,900
170	Village of Swan Lake	1	350
171	Village of St. Claude	2	95,000
172	R.M. of St. Clements	25	294,141
173	R.M. of St. Francois Xavier	4	27,000
174	Village of St. Malo	6	18,450
175	R.M. of St. Laurent	3	384,389
177	Village of St. Pierre Jolys	1	9,200
178	R.M. of Ste. Rose	10	46,390
179	Village of Ste. Rose du Lac	3	5,639
180	U.V.D. Sprague	1	140,450
181	Village of Sandy Lake	3	12,727
183	Town of Selkirk	56	1,807,810
184	R.M. of Shellmouth	5	83,290
185	R.M. of Shell River	5	47,440
186	R.M. of Shoal Lake	9	327,672
187	Village of Shoal Lake	2	700
188	R.M. of Sifton	6	1,739
190	R.M. of Silver Creek	5	81,718
191	Village of Somerset	5	25,350
192	Town of Souris	7	27,908
193	R.M. of South Cypress	8	80,000
194	R.M. of South Norfolk	9	35,854
195	R.M. of Springfield	90	320,879
196	R.M. of Stanley	40	200,987
197	Town of Steinbach	34	370,149
198	Town of Stonewall	10	4,057
199	R.M. of Strathclair	3	7,200

Table No. 15 (continued)

Number of Fires and Amount of Fire Loss by Community or Area, 1985

Municipal Code	Name	Number of Fires	Amount of Loss
200	R.M. of Strathcona	2	$ —
201	R.M. of Swan River	19	113,250
202	Town of Swan River	21	63,364
203	Village of Stony Mountain	3	125,370
205	R.M. of Tache	26	282,448
206	Village of Teulon	1	60
207	Town of The Pas	63	163,336
208	R.M. of Thompson	4	25,069
209	City of Thompson	135	319,464
212	R.M. of Turtle Mountain	14	52,400
216	R.M. of Victoria	3	50,558
217	R.M. of Victoria Beach	4	462
218	Town of Virden	12	4,200
221	R.M. of Wallace	15	45,926
224	R.M. of Westbourne	11	130,900
226	R.M. of West St. Paul	13	5,025
227	R.M. of Whitehead	11	43,593
228	R.M. of Whitemouth	20	417,350
229	R.M. of Whitewater	5	158,500
230	R.M. of Winchester	6	29,000
231	Town of Winkler	21	245,293
232	City of Winnipeg	4,066	12,640,516
233	Town of Winnipeg Beach	12	46,673
234	Village of Winnipegosis	3	150
235	R.M. of Woodlands	9	186,040
236	R.M. of Woodworth	16	60,851
238	L.G.D. of Alexander	26	276,564
240	L.G.D. of Alonsa	9	45,338
242	L.G.D. of Armstrong	16	295,450
244	L.G.D. of Churchill	2	—
246	L.G.D. of Consol	5	51,200
248	L.G.D. of Fisher	14	36,101
250	L.G.D. of Gillam	8	3,500
252	L.G.D. of Grahamdale	11	608,500
254	L.G.D. of Grand Rapids	2	—
255	Bissett	1	50,000
256	Town of Leaf Rapids	5	47,700
258	L.G.D. of Lynn Lake	2	6,000
259	Stevenson Island	1	100
260	L.G.D. of Mountain	15	262,087
261	Herb Lake Landing	1	1,020
262	L.G.D. of Mystery Lake	9	156,923
263	Big Black River	1	—
264	L.G.D. of Park	8	55,216
266	L.G.D. of Pinawa	6	15,700
267	Fisher Bay	2	—
268	L.G.D. of Piney	13	73,391
269	Dallas/Red Rose	5	—
270	L.G.D. of Reynolds	6	739,700
271	Cross Lake	6	7,000
272	Town of Snow Lake	4	2,800

Table No. 15 (continued)

Number of Fires and Amount of Fire Loss by Community or Area, 1985

Municipal Code	Name	Number of Fires	Amount of Loss
273	Dakota Ojibway Tribal Council	20	$ 237,540
274	L.G.D. of Stuartburn	10	26,267
275	Berens River	3	27,173
276	Wasagaming	1	—
277	Waterhen	3	4,594
278	Cranberry Portage	6	146,711
279	Thicket Portage	7	—
280	Pointe du Bois	3	73,000
282	Crane River	3	7,000
285	Mallard	1	90,000
288	Pikwitonei	2	61,100
291	Duck Bay	17	—
292	Barrows/Red Deer Lake	3	—
294	Camperville	2	44,100
296	Moose Lake	2	40,500
297	Norway House	5	500
298	South Indian Lake	1	2,000
299	Wabowden	1	15
300	Miscellaneous	31	537,206
303	Granville Lake	1	—
304	Harwill	2	—
305	Homebrook	1	22,700
306	Little Grand Rapids	1	5,600
307	Nelson House	1	28,000
308	Pine Dock	1	20,000
315	West Region Tribal Council	7	77,000
320	Miscellaneous Indian Reserves	61	799,895
	Total	**6,461**	**$36,869,621**

Table No. 16

Fires Causing Three or More Fatalities, 1985

Date	Location	Occupancy	Cause	Fatality Breakdown Men	Women	Children	Total
85 01 25	Fort Alexander Indian Reserve	Dwelling	Undetermined — accidental	3	—	—	3
85 03 22	R.M. Winchester	Dwelling	Undetermined — accidental	2	2	1	5

Table No. 17

Fire Losses Exceeding $500,000., 1985

Date	Location	Occupancy	Reported Cause	Amount of Loss
85 02 23	L.G.D. Grahamdale	Service Station	Undetermined — accidental	$ 510,000*
85 04 14	Winnipeg	Lumber Yard	Child playing with fire	2,400,000*
85 06 28	Selkirk	Mercantile	Incendiary	1,571,000*
85 07 04	Emerson	Mercantile	Undetermined — accidental	800,000*
85 10 11	R.M. of Bifrost	Mercantile	Undetermined — accidental	710,000*
85 10 13	L.G.D. Reynolds	Peat Moss Plant	Undetermined	725,000*

**Estimated loss*

Section II — Investigation Section

Table No. 18

Investigations Conducted Under The Fires Prevention Act, 1985

Area	Number of Investigations Conducted
Fire Commissioner's Staff[1]	494
Urban Police Forces	150
R.C.M.P.	266
	910
Metro Winnipeg	465
Urban Areas	39
Rural Areas	406
	910

[1]In co-operation with local authorities.

Table No. 19

Findings of Investigations Conducted Under The Fires Prevention Act, 1985

Cause of Fire	Number
Accidental	475
Incendiary	172
Vandalism	42
Undetermined — Accidental	190
— Suspicious	30
Still Under Investigation	1
Total	**910**

Table No. 20

Disposition of Investigations Related to Incendiary Fires, 1985

Disposition	Number
Insufficient Evidence for Charges to be Laid at End of 1985	29
Charges — Adults	39
— Juveniles	30
Convictions — Adults	11
— Juveniles	18
Charges Stayed or Withdrawn	11
Juveniles Warned	43
Adjourned "Sine Die"	1
Acquittals	5
Charges Dismissed	—
Absolute Discharge	—
Conditional Discharge	1
Cleared Otherwise	—
Under Investigation	—
Suicide by Arson	1
Attempted Suicide by Arson	2
Murder by Arson	—
Detained for Psychiatric Examination	2
Death by Incendiarism	—
Convicted on Other Offenses Related to Fire Incidents	—
No Charges Laid Due to Mental Illness	4
Warrents Issued	—
Court Cases Pending at End of 1985	32*

**Ten court cases pending prior to 1985.*

Section III — Fire Prevention Section

Table No. 21

Inspections Conducted by Staff Under The Fires Prevention Act[1], April 1, 1985 - March 31, 1986

Group	Division	Occupancy Code	Occupancy	Inspections Conducted
		ASSEMBLY OCCUPANCIES:		
A	1	01	Theatres	1
	2	04	Churches	2
		06	Community Halls	6
		09	Day Care Centres	137
		18	Stations and Depots	2
		20	Restaurants	4
		21	Schools	8
	3	01	Arenas	1
		GROUP TOTAL		**161**
		INSTITUTIONAL OCCUPANCIES:		
B	2	02	Convalescent Homes	2
		03	Personal Care Homes	74
		04	Hospitals	68
		07	Psychiatric Hospitals (without detention quarters)	1
		99	Miscellaneous	12
		GROUP TOTAL		**157**
		RESIDENTIAL OCCUPANCIES:		
C	1	01	Apartments	132
		02	Boarding Houses	8
		06	Dormitories/Staff Residences	1
		07	Hotels	158
		08	Houses	8
		09	Lodging Houses	6
		11	Motels	52
		99	Miscellaneous	25
		GROUP TOTAL		**390**
		BUSINESS AND PERSONAL SERVICE OCCUPANCIES:		
D	1	06	Fire Stations	2
		07	Laundries	1
		08	Medical Offices	1
		09	Offices	1
		GROUP TOTAL		**5**

Table No. 21 (continued)

Inspections Conducted by Staff Under The Fires Prevention Act[1], April 1, 1985 - March 31, 1986

Group	Division	Occupancy Code	Occupancy	Inspections Conducted
		MERCANTILE OCCUPANCIES:		
E	1	05	Stores	2
		GROUP TOTAL		**2**
		INDUSTRIAL AND STORAGE OCCUPANCIES:		
F	1	99	Miscellaneous	2
	2	01	Aircraft Hangars	1
		15	Repair Garages	2
		18	Storage Rooms	1
		22	Woodworking Factories	1
	3	07	Storage Garages	1
		10	Workshops	1
		GROUP TOTAL		**9**
Total				**724**

[1]*The number of inspections conducted included re-inspections.*

Table No. 22

Fires Prevention Educational Activities, April 1, 1985 - March 31, 1986

Type of Activity	Number Held	Attendance
MEETINGS:		
Administrators of Institutions	13	43
Administrators and/or Maintenance Personnel	6	22
Fire Departments	10	19
Governmental	24	142
Municipal Fire Prevention Officers	2	3
Mutual Aid Fire Prevention Officers	11	186
School and/or School Division Officials	6	14
Unclassified	17	148
CONSULTATIONS:		
Administrators of Institutions	64	120
Building Inspectors	9	19
Commercial and/or Industrial	75	111
Day Care Administrators/Co-ordinators	39	58
Fire Chiefs	172	264
Governmental	45	98
Municipal Fire Prevention Officers	3	4
Mutual Aid Fire Prevention Officers	1	2
School and/or School Division Officials	10	38
Unclassified	5	6
MISCELLANEOUS:		
Film and/or Slide Showings	1	2
Fire Drills and/or Evacuations	7	1,315
Lecture Presentations and/or Workshops	9	228
Unclassified	10	176

Table No. 23

Inspections Conducted Under The Fires Prevention Act by Local Fire Prevention Officers[1], April 1, 1985 - March 31, 1986

Community	Inspections Conducted
Arborg	2
Barrows	6
Brochet	5
Churchill	4
Crystal City	8
Elkhorn	7
Flin Flon	157
Leaf Rapids	36
Lynn Lake	55
Niverville	48
Pipestone	142
Ritchot	47
Roblin	2
Ste. Anne	20
Selkirk	87
South Indian Lake	7
Steinbach	82
Stonewall	1
Swan River	5
The Pas	9
Thicket Portage	6
Thompson	746
Treherne	1
Virden	198
Wallace and District	64
West St. Paul	1
Winnipegosis	50
Total	**1,796**

[1]The figures shown also represent re-inspections conducted under the Municipal Fire Prevention Program. The purpose of this program is to increase public awareness of potential fire hazards through annual inspections.

Table No. 24

Inspections Conducted by Staff Under The Northlands Agreement[1], April 1, 1985 - March 31, 1986

Class of Property	Inspections	Re-inspections	Requirements for the Removal or Correction of Hazards	Hazards Removed at time of Inspection
Dwellings	20	659	1,173	—
Out Buildings	5	32	—	—
Public Assembly	5	—	—	—
Commercial Structures	7	8	—	—
Total	**37**	**699**	**1,173**	**—**

[1]Part of a special fire protection program conducted in northern communities in co-operation with the Provincial Department of Northern Affairs. The program is established under the Federal/Provincial agreement, and is not funded under the provisions of The Fires Prevention Act.

Section IV — Manitoba Fire College and Field Services Section

Table No. 25

Fire College Courses[1], April 1, 1985 - March 31, 1986

Courses	Number Held	Attendance
Basic Fire Fighting Practices	5	72
Care Institutional Training	74	1,949
Certificate In Public Fire Protection	1	11
Dangerous Goods:		
Anhydrous Ammonia Seminar	5	81
Flammable Liquids Seminar	4	95
Initial Response	11	178
Regulations	9	96
Regulations (Rolling Stock)	8	57
Fire and Rescue Conference	1	170
Fire Detection and Observation	43	325
Fire Fighters Certification:		
Level I	4	46
Fire Prevention and Inspection:		
Level I	8	79
Level II	1	12
Fire Service Instructors:		
Level I	5	35
Hotel Fire Safety	3	309
Industrial Fire Safety Training:		
Level I	12	169
Portable Fire Extinguishers	1	28
Residential Building Inspector's Training	1	10
Rural Fire Fighting Tactics	2	25
Search and Rescue Seminar	4	83
Vehicle Extrication	5	89
Total	**207**	**3,919**

[1] *The courses held at the Manitoba Fire College are aimed at instructing local fire department officers, institutional and government staffs of potential fire hazards and understanding the application of the Manitoba Fire Code so that a reasonable degree of safety to the occupants in existing buildings is provided as well as providing fire safety plans.*

Table No. 26

Educational and Training Activities Under The Manitoba Fire College and Field Services Section[1], April 1, 1985 - March 31, 1986

Type of Activity	Number Held	Attendance
MEETINGS:		
Certification Program	9	25
Fire Departments	78	597
Fire Service Instructors	1	1
Governmental	30	175
Hospital Boards	4	9
Institutional	1	12
Mutual Aid	68	878
Nursing Homes	4	14
Special Projects	106	1,094
CONSULTATIONS:		
Administrators of Institutions	41	65
Commercial and/or Institutional	161	171
Fire Chiefs and/or Deputies	724	939
Fire Prevention Officers	38	54
Fire Service Instructors	78	79
Governmental	405	647
Municipal Fire Prevention Officers	4	7
Mutual Aid Officers	32	44
School and/or School Division Officials	5	38
Miscellaneous	11	11
TRAINING:		
Commercial and/or Industrial	26	568
Fire Departments	136	1,364
Hospital Staffs	26	552
Mutual Aid	26	379
Nursing Homes	15	271
Other Institutional Staffs	33	612
Uniform Training Program	19	275
Special Projects	50	1,595
MISCELLANEOUS:		
Film and/or Slide Showings	3	75
Fire Apparatus Specifications	17	n/a
Fire Drills and/or Evacuations	7	206
Fire Protection Surveys	7	n/a
Pumper Tests	5	n/a

[1]The Branch organizes meetings with the general public and other interested groups for purposes of increasing public understanding of fire prevention, initiating and improving fire protection programs and assessing fire fighting equipment needs. Staff provides training for volunteer fire departments, and institutional staffs or assists others to do so.

Section V — Engineering and Technical Services

Table No. 27

Engineering and Technical Services Activities[1], April 1, 1985 - March 31, 1986

Class of Property[2]	Type of Activity			
	Plans Examined	Reports Issued	On-Site Inspections	Bldg. Permits Issued
Assembly	295	297	584	138
Institutional	95	65	97	28
Residential	240	239	155	177
Mercantile and Personal Services	59	65	68	46
Industrial	199	178	107	90
Miscellaneous	21	17	36	—
Total	**909**	**861**	**1,047**	**479**

[1]The unit has conducted 7,003 meetings and consultations.
[2]The classes are defined in the Manitoba Building Code.

Table No. 28

Inspections and Related Activities Conducted Under The Building and Mobile Homes Act[1], April 1, 1985 - March 31, 1986

Type	Plans Examined	Reports Issued	Approved and Labelled	On Site Inspections	Installations Approved	Installations Rejected
PLUMBING AND SOLID FUEL BURNING APPLIANCES:						
Plumbing Installations	97	42	n/a	101	102	10
Solid Fuel Appliances	48	23	n/a	102	63	15
MOBILE HOMES AND TRAVEL TRAILERS:						
Permits to Sell or Lease	n/a	253	335	588	n/a	n/a
Special Approval (non certified units)	n/a	31	65	96	n/a	n/a
Standard Certification	n/a	55	152	207	n/a	n/a
Manufacturing Certification	n/a	28	77	105	n/a	n/a
Miscellaneous Inspections	n/a	27	n/a	66	38	17

[1]The unit issued 53 plumbing permits.

Table No. 29

Seminars Conducted by the Engineering and Technical Services Section[1], April 1, 1985 - March 31, 1986

Course	Number Held	Attendance
Safe Use of Solid Fuel Fired Appliances	14	706

[1]The seminars were held to increase public awareness on the safe use and installation of solid fuel fired appliances.

Section VI — Manitoba Fire Chiefs

Office of the Fire Commissioner List of Fire Chiefs and Fire Departments 1985

Alexander	W.J. Dane
Alonsa	Stan Fashoway
Altona	Ed Klassen
Amaranth	Lloyd Emberly
Angusville	Mike Klym
Arborg-Bifrost	Geo. Chyzy
Arden	Dennis Gagnon
Ashern	Wm. Koch
Austin	Don Currie
Baldur-Argyle	Marcel Fransoo
Barrows	Larry Delaronde
Beausejour	Ron F. Nikodem
Belmont	Edward Verhelst
Benito	John Prokopowich
Berens River	Roland Debien
Big Black River	Raymond Valiquette
Binscarth	Walter K. Hutton
Birch River	Floyd Corbett
Birtle	Gerald Birch
Bissett	John Bilcowski
Boissevain	Ronald Walker
Bowsman	Ken Fahrenschon
Brandon	E. Polnick
Brochet	Roderick Thomas
Camperville	George Flamond
Carberry-N. Cypress	R. Alvin Walker
Carman-Dufferin	Brian Milne
Cartier, R.M.	Roger Gillis
Cartwright-Roblin	Wm. G. Waldie
Churchill	Dick Hunter
Cormorant	Joe Sydor
Cranberry Portage	Jack Leptick
Crane River	Maurice Routhier
Cross Lake	Glen Smith
Crystal City	Wm. McKitrick
Cypress River	Brian Laing
Dallas/Red Rose	Vacant
Darlingford	Bob Davidson
Dauphin	Dave Seeley
Dauphin River	Einar K. Einarsson
Deloraine	Wm. Cheyne
Dominion City	Barry Gushuliak
Duck Bay	Charles Sanderson
Dunrea	Len Clark
East St. Paul	Ernie Ottenbreit
East Selkirk	Clive Rennie
Easterville	Vacant
Elm Creek	Kermit Olson
Emerson	Lawrence Pow
Erickson	Dennis Skog
Eriksdale	Harry Granburg
Ethelbert	Ray Silbernagel
Fisher Bay	Vacant
Fisher Branch	John Plett
Flin Flon	Don W. Still
Fork River	Ben Bornn
Foxwarren	Don Hodgson
Fraserwood	Steven Maksymyk
Gilbert Plains	Len Pratt
Gillam	Darrell Bracken
Gimli	Bert Bouillet
Gladstone	Richard Foxon
Glenboro	W.R. Jamieson
Glenella	Gordon Wilson
Gods Lake Narrows	Raymond Trout
Grand Marais	Art Carriere
Grand Rapids	Greg King
Grandview	John Yarush
Granville Lake	Geo. MacKenzie
Gretna	John Teichroeb
Grunthal	Jake Woelke
Gypsumville	Murray L. Jackson
Hamiota	Douglas Roberts
Hartney	R.A. McKenzie
Harwill	David Hobden
Haywood	J. Dheilly
Herb Lake Landing	Jim Corman
Holland	Ron Landerville
Homebrook	Ruth Zahorodney
Ilford	Edward Shoup
Inglis	Gerald Gorda
Kelwood	Ronald Wilson
Kenton	Ivan Crampain
Killarney	C.E. Hartwell
Kleefeld	Abe Martens
La Broquerie	Gilbert Tetrault
La Riviere	Karl Wiklund
Lac du Bonnet	Lloyd Howe
Leaf Rapids	Edward Kozy
Letellier-St. Joseph	Marc P. Lemay
Lorette	R. Desorcy

Office of the Fire Commissioner List of the Fire Chiefs and Fire Departments 1985 (continued)

Lorne, R.M.	Peter Sheffield
Lowe Farm	Geo Klassen
Lundar	Ernie Oliver
Lynn Lake	Wayne Doak
MacDonald, R.M.	Alvin R. Murner
MacGregor	Ronald Borton
Mafeking	Melvin Plett
Manigotogan	Charles Simard
Manitou	Frank Gerbrandt
Matheson Island	Don Ladouceur
McAuley	Glendon Patterson
McCreary	Wm. Roncin
Meadow Portage	Ken Spence
Melita	Mel Davis
Miami	L. Mansell
Miniota	S.W. Dales
Minitonas	Douglas E. Wagner
Minnedosa	M. Mummery
Moose Lake	Michael Lucien
Moosehorn	Michael Kutzy
Morden	Jack A. Duncan
Morris	Bill Harder
National Mills	Vacant
Neepawa	Tim Prawdzik
Nelson House	George Howard
Newdale	Henry Winder
Ninette	Bob Mason
Niverville	Rene LaRiviere
Norway House	Dennis Dwyer
Notre Dame de Lourdes	Yves Julian
Oak Bank	John Murrell
Oak Lake	Robert Smith
Oak River	Jim Forsyth
Oakburn	J.R. Edmundson
Ochre River	W. Lloyd Freeman
Onanole & District	David J. Green
Pelican Rapids	Gordon Munroe
Pierson	Merv Nicholls
Pikwitonei	Harvey Brightnose
Pilot Mound	K.L. Heppner
Pinawa	N.P. Cliche
Pine Falls	Peter Hutchison
Pine River	Wm. J. Bodnarchuk
Piney	Dale Edbom
Plumas	Ron Curtis
Plum Coulee	Norman Dyck
Pointe du Bois	Gordon Johnson
Portage la Prairie	Albert McDonald
Rapid City	Rick Worth
Red Deer Lake	Faron Cook
Reston	Ross Benzie
Richer	John Love
Rivers	Maurice Dickson
Riverton	Raymond Johnson
Roblin	C. Brade
Roland	James Moffatt
Rorketon	Leo L. Hrushowy
Rosedale, R.M.	Matt Skibinsky
Rosenort	Frank Plett
Rossburn	Larry Huston
Rosser	Carl Simonson
Russell	Henry Smith
St. Adolphe	Hubert Brodeur
St. Andrews, R.M.	Edwin Carter
St. Claude	Alfred Pineau
St. Francois Xavier	John Zeemel
St. Jean Baptiste	Norbert Sabourin
St. Laurent	Ed Schon
St. Lazare	Harry Jessop
St. Malo	Denis Maynard
St. Pierre-Jolys	R. Hebert
Ste. Anne	Maurice Chaput
Ste. Rose du Lac	Wm. Ryder
Sandy Lake	Les Lewandoski
Selkirk	Ted Wozny
Seymourville	Ted Seymour
Sherridon	Vacant
Shoal Lake	J.R. Edmundson
Sifton	Martin Gancher
Snow Flake	Bill Giesbrecht
Snow Lake	Brian Hicks
Somerset	Luc Boulet
Souris	Donald Doherty
South Indian Lake	Steve Ducharme
South Norfolk, R.M.	Eric Allan
Sperling	Wendell J. Fewster
Sprague	Stan Meek
Steinbach	Ert Peters
Stevenson Island	Len Chotnaby
Stonewall-Rockwood	Barry Mann

Office of the Fire Commissioner
List of Fire Chiefs and Fire Departments
1985 (continued)

Stony Mountain-Rockwood	Ron Lucas
Strathclair	Brian Martin
Swan River	Lorn Halliday
Teulon-Rockwood	Jack Palen
The Pas	Neil Puckett
Thicket Portage	Alvin Brightnose
Thompson	L. Carkener
Treherne	John Jenkinson
Victoria Beach	Robert L. Jonsson
Vita	Robert C. Cesmystruk
Wabowden	Vern Smith
Wallace and District	Bill Edmonds
Warren-Woodlands	Allan Jones
Wasagaming	Pat Rousseau
Waskada	W.H. Watson
Waterhen	Allan McCreery
Wawanesa	Mel Roney
West St. Paul	Tom E. Addis
Whitemouth, R.M.	Paul Thomson
Whitewater, R.M.	Howard Turnbull
Winkler	John Elias
Winnipeg	Jack Henderson
Winnipeg Beach	Lyle Olson
Winnipegosis	C. Bergen